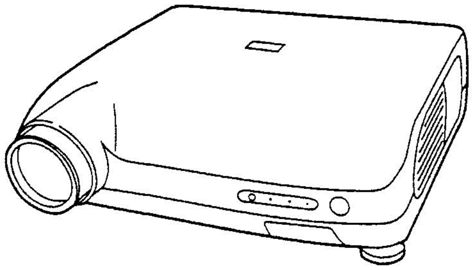
SHARP

SERVICE MANUAL

S36F8XVH37U//



NTSC SYSTEM
LCD PROJECTOR

MODEL XV-H37U

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

CONTENS

Page

- SPECIFICATIONS 2
- IMPORTANT SERVICE SAFETY NOTES 3
- NOTE TO SERVICE PERSONNEL 4
- OPERATION MANUAL 7
- REMOVAL OF MAJOR COMPONENTS 10
- THE OPTICAL UNIT OUTLINE 14
- ELECTRICAL ADJUSTMENT 21
- TROUBLESHOOTING TABLE 25
- CHASSIS LAYOUT 29
- BLOCK DIAGRAM 31
- DESCRIPTION OF SCHEMATIC DIAGRAM 33
- WAVEFORMS 34
- OVERALL WIRING DIAGRAM 35
- SCHEMATIC DIAGRAM 37
- PRINTED WIRING BOARD ASSEMBLIES 49
- PARTS LIST
  - ■ ELECTRICAL PARTS 56
  - ■ CABINET AND MECHANICAL PARTS 73
  - ■ ACCESSORIES PARTS 77
  - ■ PACKING PARTS 77
- PACKING OF THE SET 78

SHARP ELECTRONICS CORPORATION

Service Headquarters: Sharp Plaza, Mahwah, New Jersey 07430-2135 Phone; 1-800-BE SHARP

SHARP ELECTRONICS OF CANADA LTD.

335 Britannia Road East Mississauga, Ontario L4Z 1W9 Canada

SPECIFICATIONS

Product Type	LCD Projector
Model	XV-H37U
Video system	NTSC 3.58
Display method	LCD panels x 3, RGB optical shutter method
LCD panels	
Panel size	3.0" (4.5 [H] x 6.2[W] cm)
Display method	Translucent TN liquid crystal panels
Drive method	TFT (Thin Film Transistor) Active Matrix panels
No. of pixels	309,120 dots x 3 panels
Lens	1 - 1.6 zoom lens, F3.6 - 4.6, f=105 - 168 mm
Projection lamp	250W Metal halide
Contrast ratio	100:1
Video input signal	RCA Connector: VIDEO, composite video, 1 Vp-p, sync negative, 75Ω terminated RCA Connector: AUDIO, 142 mVrms more than 47kΩ (stereo)
S-video input signal	4-pin mini DIN connector Y (luminance signal): 1 Vp-p, sync negative, 75Ω terminated C (chrominance signal): burst 0.286 Vp-p, 75Ω terminated
Video (monitor) output signal	RCA Connector: VIDEO, composite video, 1 Vp-p, sync negative, 75Ω terminated RCA Connector: AUDIO, 142 mVrms more than 47kΩ (stereo)
Horizontal resolution	500 TV lines (video input)
Audio output	3 W (monaural)
Speaker system	3" (8 cm) round
Rated voltage	AC 120 V
Rated frequency	50/60 Hz
Power consumption	335 W
Operating temperature	41°F to 104°F (5°C to 40°C)
Storage temperature	–4°F to 131°F (–20°C to 55°C)
Cabinet	Plastic
Dimensions (W x D x H)	19 11/16" x 17 19/32" x 7 29/32" (500 x 447 x 201 mm) projector only 19 11/16" x 20 15/32" x 7 29/32" (500 x 520 x 201 mm) incl. terminal cover
Weight	24.7 lbs (11.2kg) projector only, 25.4 lbs (11.5 kg) incl. terminal cover
Supplied accessories	Remote control unit, two AAA batteries, lens cover (installed), terminal cover, inverting labels, A/V cable
Replacement parts	Lamp unit (Lamp/cage module)(BQC-XVH37U//1), Remote control (RRMCG1229CESA), Air filter (PFiLD0027CEZZ), A/V cable (QCNW-3740CEZZ)

Specifications are subject to change without notice.

SHARP

Technical Report

SUBJECT: CHANGE OF PARTS	**NO:** EEL-093 **DATE:** ARR/15/1996 **FROM:** Q.R.C. Center TV & VIDEO Systems

The following parts have been changed. Please notye this information for your service.

MODEL	SERIAL NO.	MODEL	SERIAL NO.	MODEL	SERIAL NO.
XV-H37U	Refer to NOTE				

[A] **Reason for change**	1. To improve performance. 2. Change of material or dimention. 3. To meet approved specification.	4. To meet approved regulation. 5. Standardization. 7. Others.
[B] **Interchangeability**	A: Completely interchangeable. .... **(OLD = NEW)** B: Interchangeable from OLD to NEW. .... **(OLD to NEW)** C: Interchangeable from NEW to OLD. .... **(NEW to OLD)** D: Not interchangeable. .... **(NEW x OLD)**	

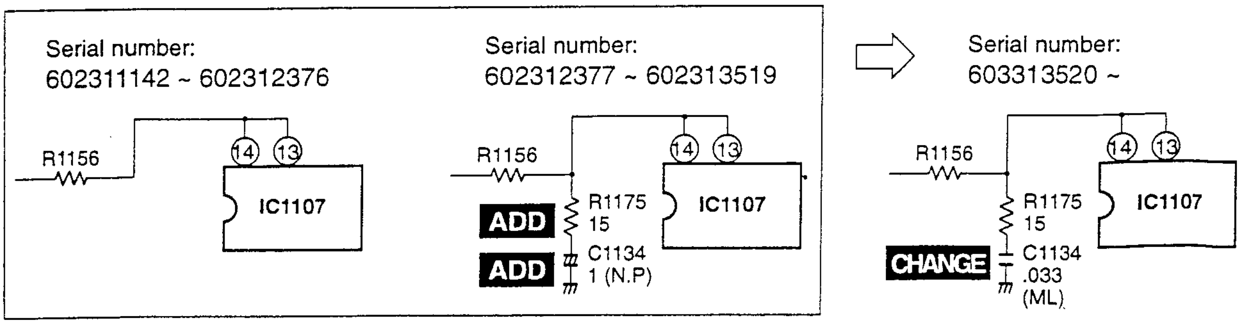
REF. NO.	DESCRIPTION	OLD PARTS	NEW PARTS	[A]	[B]	Effective from	Price Code	Avail-able	Sup-plier
Serial number: 602312377 ~ 602313519									
C1134	1µF, 50V, Elect., (N.P)	—	VCE9GA1HW105M	1	–	FEB/'96	AB	APR/'96	J
R1175	15 ohm, 1/8W, Carbon	—	VRD-RA2BE150J	1	–	FEB/'96	AA	APR/'96	J
Serial number: 603313520 ~									
C1134	0.033µF, 50V, Mylar	VCE9GA1HW105M	VCQYTA1HM333J	1	D	MAR/'96	AA	APR/'96	J

DETAIL OF CHANGE:

The above change has been made to cope with the following problems: streaking on the on-screen display with the brightness and picture controls at maximum position, as well as a border line appearing because of a difference in brightness between the right and left halves on the blue background screen.

NOTE:

Refer to Service Manual on page 40 (Schematic Diagram: MAIN UNIT-2/3).


Serial number:
602311142 ~ 602312376
R1156
14
13
IC1107
Serial number:
602312377 ~ 602313519
R1156
14
13
ADD
R1175
15
IC1107
ADD
C1134
1 (N.P)
Serial number:
603313520 ~
R1156
14
13
R1175
15
IC1107
CHANGE
C1134
.033
(ML)

IMPORTANT SERVICE SAFETY NOTES

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and servicing guidelines as follows:**

WARNING

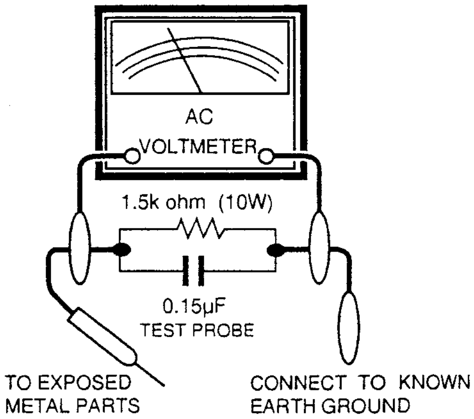
1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

BEFORE RETURNING THE PROJECTOR: (Fire & Shock Hazard)

Before returning the projector to the user, perform the following safety checks:

1. Inspect lead wires are not pinched between the chassis and other metal parts of the projector.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for current leakage in the following manner:

- Plug the AC cord directly into a 120-volt AC outlet, (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in parallel between all exposed metal cabinet parts and earth ground.
- Use an AC voltmeter with sensitivity of 5000 ohm per volt., or higher, sensitivity to measure the AC voltage drop across the resistor (See Diagram).
- All checks must be repeated with the AC plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these checks.)
  Any reading of 0.3 volts RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD Projector have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams. For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les projecteur à LCD présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue.
Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.
Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque "⚠" et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques. Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies ou autres accidents.

NOTE TO SERVICE PERSONNEL

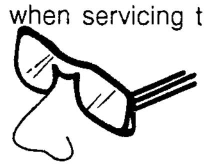
UV-RADIATION PRECAUTION

The light source, metal halide lamp, in the LCD projector emits small amounts of UV-Radiation.

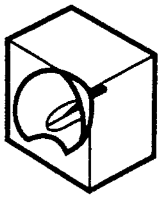
AVOID DIRECT EYE AND SKIN EXPOSURE.

To ensure safety please adhere to the following:

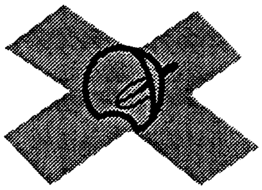
1. Be sure to wear sun-glasses when servicing the projector with the lamp turned "on" and the top enclosure removed.



2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type CLMPF0031DE01 rated 65V/250W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

NOTE POUR LE PERSONNEL D'ENTRETIEN

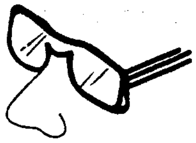
PRECAUTION POUR LES RADIATIONS UV

La source de lumière, la lampe métal halide, dans le projecteur LCD émet de petites quantités de radiation UV.

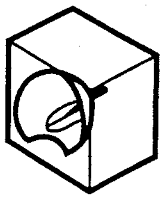
EVITEZ TOUTE EXPOSITION DIRECTE DES YEUX ET DE LA PEAU.

Pour votre sécurité, nous vous prions de respecter les points suivants:

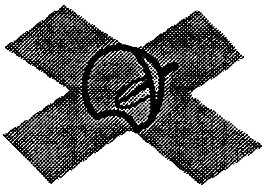
1. Toujours porter des lunettes de soleil lors d'un entretien du projecteur avec la lampe allumée et le haut du coffret retiré.



2. Ne pas faire fonctionner la lampe à l'extérieur du boîtier de lampe.



3. Ne pas faire fonctionner plus de 2 heures avec le coffret retiré.



Précautions pour les radiations UV et la lampe moyenne pression

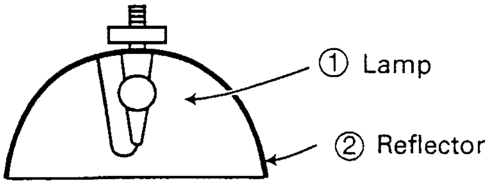
1. Toujours débrancher la fiche AC lors du remplacement de la lampe.
2. Laisser l'unité refroidir pendant une heure avant de procéder à l'entretien.
3. Ne remplacer qu'avec une lampe du même type. Type CLMPF0031DE01, caractéristique 65V/250W.
4. La lampe émet de petites quantités de radiation UV- éviter tout contact direct avec les yeux.
5. La lampe moyenne pression implique un risque d'explosion. Toujours suivre les instructions d'installation décrites ci-dessous et manipuler la lampe avec soin.

UV-RADIATION PRECAUTION (Continued)

■ Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.)
Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.
[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-Radiation are emitted from an opening between the duct cover and the lamp housing, it is recommended to place the LENS CAP on the opening during servicing to avoid eye and skin exposurem (Fig. 1).

Note: Please obtain a lens cap before servicing a model XV-H37U that is received without one.

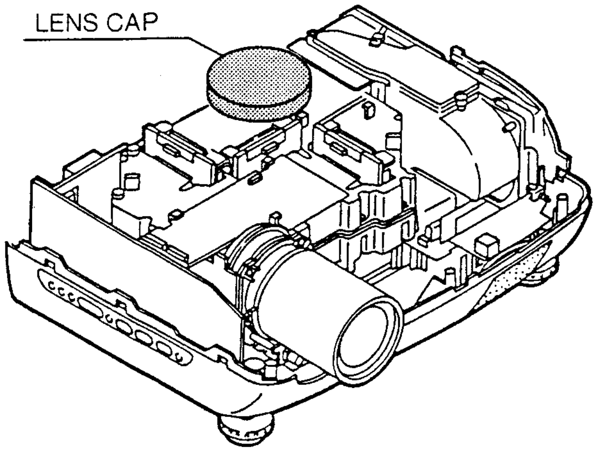


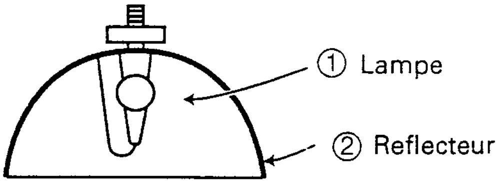
Figure 1.

PRECAUTION POUR LES RADIATIONS UV (Suite)

■ Remplacement de la lampe

Remarque:

Comme la lampe devient très chaude pendant le fonctionnement de l'unité, son remplacement ne doit être effectué au moins une heure après avoir coupé l'alimentation (pour permettre à la lampe de refroidir).
En installant la nouvelle lampe, s'assurer de ne pas toucher la lampe (ampoule). Remplacer la lampe en tenant son réflecteur ②.
[N'utiliser qu'un remplacement d'origine.]



DANGER ! — Ne jamais mettre sous tension sans la lampe pour éviter un choc électrique ou des dommages des appareils car le stabilisateur génère de hautes tensions à sa mise en route.

Comme de petites quantités de radiation UV sont émises par une ouverture entre le couvercle du conduit et le botier de la lampe,il est recommandé de placer le CAPUCHON D'OPTIQUE sur l'ouverture pendant l'entretien pour éviter une exposition des yeux et la peau (Fig. 1).

Remarque: Priére de se procurer un capuchon d'optique acant d'entretien un modéle XV-H37U qui est livré sans.

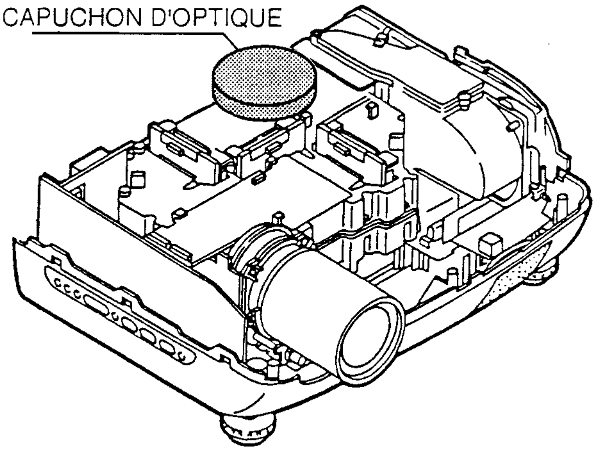


Figure 1.

WARNING: High brightness light source, do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly in to the beam of light.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO MOISTURE OR WET LOCATIONS.

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT REMOVE SCREWS
EXCEPT SPECIFIED USER
SERVICE SCREW

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE CABINET.
NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

The lighting flash with arrowhead within a triangle is intended to tell the user that parts inside the product are risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the manual with the projector.

CAUTION

(Power Unit)

10A 125V

For continued protection against a risk of fire, replace only with same type 10A 125V fuse. (F701)

AVERTISSEMENT: Source lumineuse de grande intensité. Ne pas fixer le faisceau lumineux ou le regarder directement. Veiller particulièrement à éviter que les enfants ne fixent directement le faisceau lumineux.

AVERTISSEMENT: AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION, NE PAS PLACER CET APPAREIL DANS UN ENDROIT HUMIDE OU MOUILLE.

ATTENTION

RISQUE
D'ELECTROCUTION NE
PASRETIRER LES VIS, A
L'EXCEPTION DES VIS DE
REPARATION UTILISATEUR
SPECIFIEES

ATTENTION: POUR EVITER TOUT RISQUE
D'ELECTROCUTION, NE PAS RETIRER LE CAPOT.
AUCUNE DES PIECES INTERIEURES N'EST REPARABLE
PAR L'UTILISATEUR, A L'EXCEPTION DE L'UNITE DE
LAMPE. POUR TOUTE REPARATION, S'ADRESSER A UN
TECHNICIEN D'ENTRETIEN QUALIFIE.

L'éclair terminé d'une flèche à l'intérieur d'un triangle indique à l'utilisateur que les pi'eces se trouvant dans l'appareil sont susceptibles de provoquer une décharge électrique.

Le point d'exclamation à l'intérieur d'un triangle indique à l'utilisateur que les instructions de fonctionnement et d'entretien sont détaillées dans les documents fournis avec le projecteur.

PRECAUTION

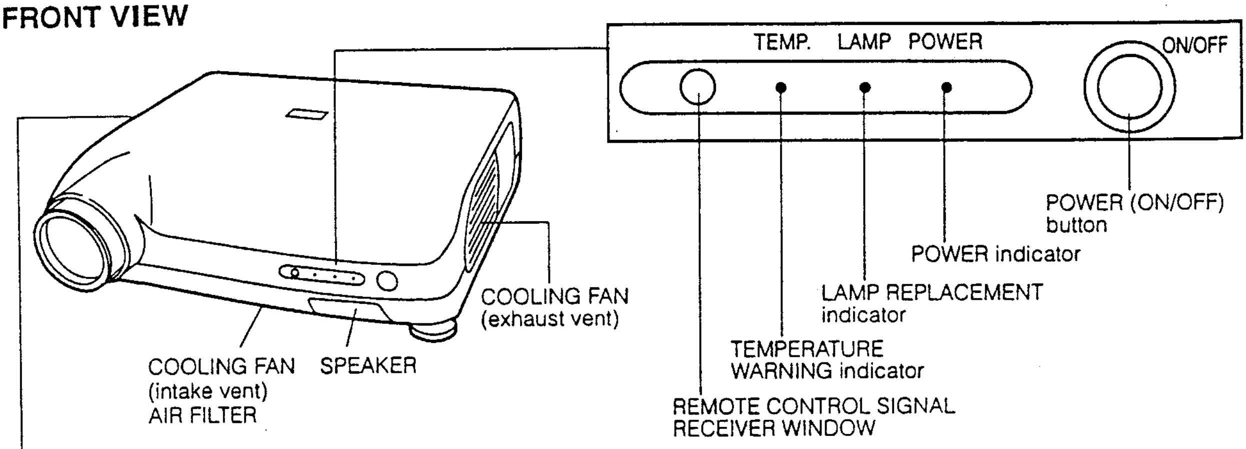
(Unite D'alimentation)

10A 125V

Pour une protection continue contre les risques d'incendie, ne remplacer qu'avec un fusible 10A 125V du même type. (F701)

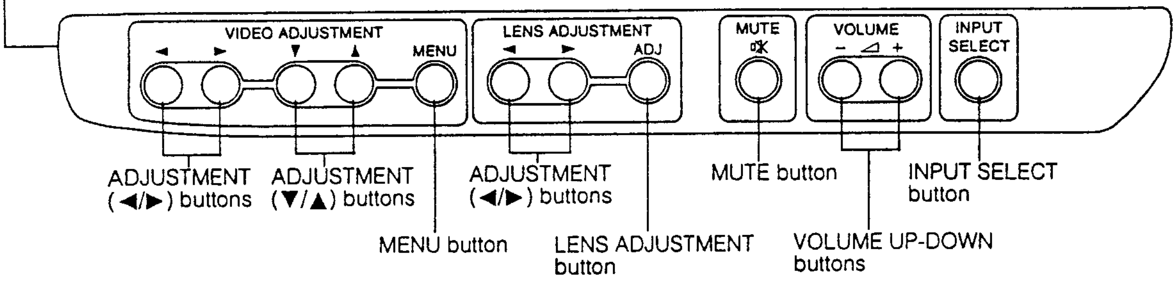
Location of Controls

FRONT VIEW

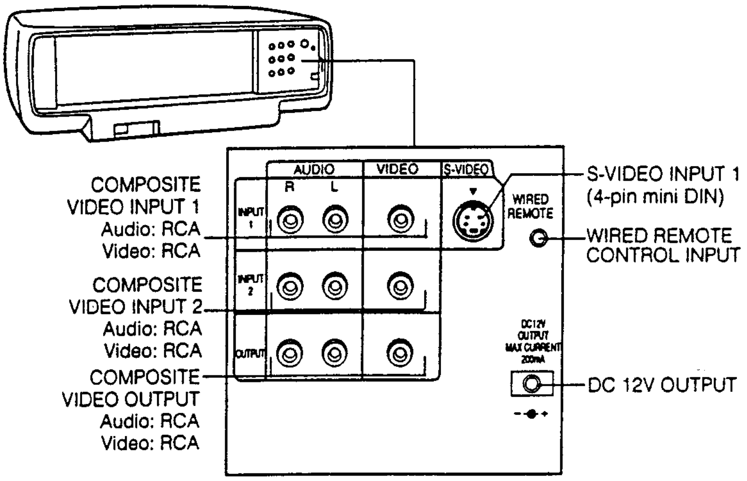

TEMP.
LAMP
POWER
ON/OFF
POWER (ON/OFF) button
POWER indicator
LAMP REPLACEMENT indicator
TEMPERATURE WARNING indicator
REMOTE CONTROL SIGNAL RECEIVER WINDOW
COOLING FAN (exhaust vent)
COOLING FAN (intake vent) AIR FILTER
SPEAKER

OPERATION PANEL ON SIDE OF PROJECTOR

Phosphorescent Display
The operation controls on the right side use a phosphorescent display for easy viewing. When exposed to surrounding light, the phosphorescent display will glow in the dark.
(Glow ratio)
When exposed to sunlight or other light of 500 lux or more for about 10 minutes, the display will glow for about 1 hour.
(**Note:** 500 lux = 3.3 to 4.9 feet (1-1.5m) directly under a 40W fluorescent light.)


VIDEO ADJUSTMENT
◄ ►
▼ ▲
MENU
LENS ADJUSTMENT
◄ ►
ADJ
MUTE
VOLUME
– ⊿ +
INPUT SELECT
ADJUSTMENT (◄/►) buttons
ADJUSTMENT (▼/▲) buttons
ADJUSTMENT (◄/►) buttons
MUTE button
INPUT SELECT button
MENU button
LENS ADJUSTMENT button
VOLUME UP-DOWN buttons

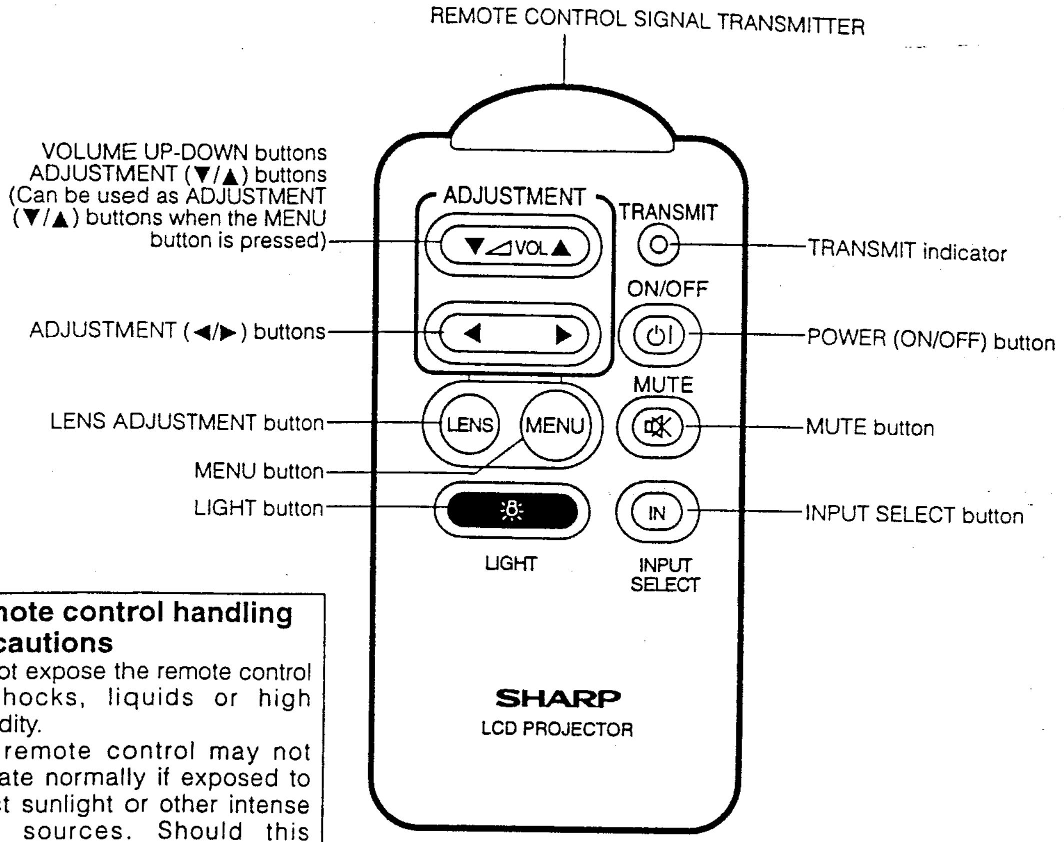
REAR VIEW


AUDIO
R L
VIDEO
S-VIDEO
INPUT 1
INPUT 2
OUTPUT
WIRED REMOTE
DC12V OUTPUT MAX CURRENT 200mA
COMPOSITE VIDEO INPUT 1 Audio: RCA Video: RCA
COMPOSITE VIDEO INPUT 2 Audio: RCA Video: RCA
COMPOSITE VIDEO OUTPUT Audio: RCA Video: RCA
S-VIDEO INPUT 1 (4-pin mini DIN)
WIRED REMOTE CONTROL INPUT
DC 12V OUTPUT

Note:
- If a current of 200mA or more is drawn from the DC 12V OUTPUT jack, a protection device will automatically turn off the projector and leave it in Stand-by mode.

Remote Control Operation

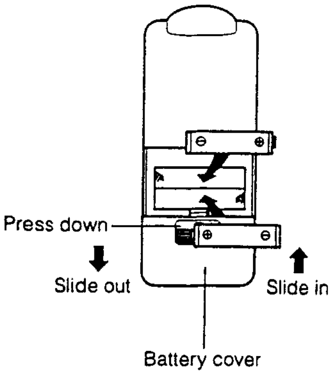
REMOTE CONTROL


REMOTE CONTROL SIGNAL TRANSMITTER
VOLUME UP-DOWN buttons
ADJUSTMENT (▼/▲) buttons
(Can be used as ADJUSTMENT (▼/▲) buttons when the MENU button is pressed)
ADJUSTMENT (◀/▶) buttons
LENS ADJUSTMENT button
MENU button
LIGHT button
ADJUSTMENT
▼◁VOL▲
TRANSMIT
ON/OFF
MUTE
LENS
MENU
IN
LIGHT
INPUT SELECT
SHARP
LCD PROJECTOR
TRANSMIT indicator
POWER (ON/OFF) button
MUTE button
INPUT SELECT button

Remote control handling precautions

Do not expose the remote control to shocks, liquids or high humidity.

The remote control may not operate normally if exposed to direct sunlight or other intense light sources. Should this happen, reposition the light source or the LCD Projector.


Press down
Slide out
Slide in
Battery cover

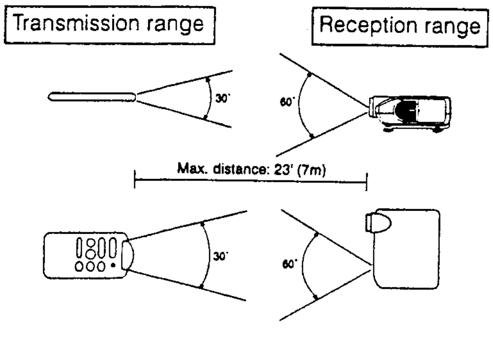
Inserting the Batteries

Remove the battery cover as shown and insert two AAA size batteries making sure the polarity matches the (+) and (–) marks inside the battery compartment.

Notes:

Incorrect use of batteries may cause them to leak or burst.

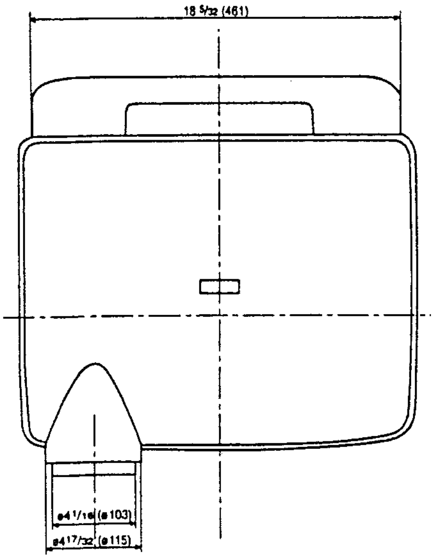
- Insert the batteries with the (+) and (–) polarities as indicated.
- Remove the batteries if the remote control will not be operated for an extended period of time.
- Maintain the batteries in clean condition.
- Do not mix different brands of batteries. The life expectancy of the new batteries will be shortened and the old batteries may leak.
- When the batteries have been used up, remove them immediately to prevent leakage and damage. Leaked battery fluid may irritate the skin. Remove any battery fluid by wiping with a cloth.
- Due to storage conditions and the shelf life of the supplied batteries, they may run out after a short time. Replace them with new batteries as soon as possible.


Transmission range
Reception range
30°
60°
Max. distance: 23' (7m)
30°
60°

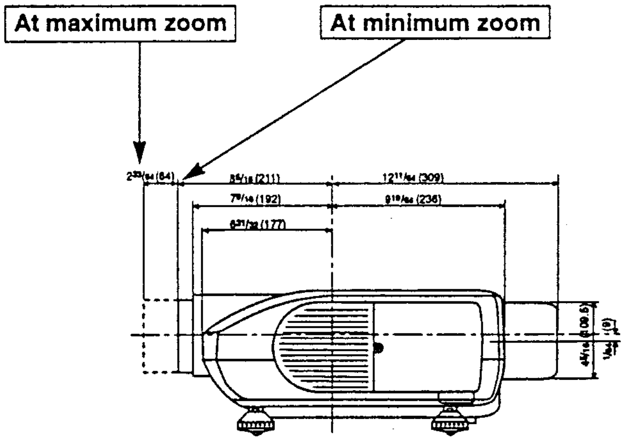
Remote control positioning

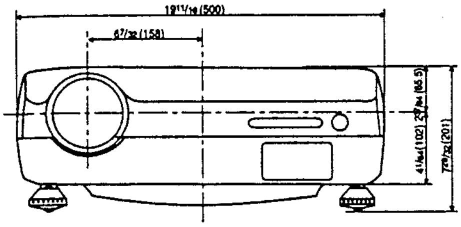
Use the remote control as shown in the figures on the left.

Dimensions


18 5/32 (461)
ø4 1/16 (ø103)
ø4 17/32 (ø115)

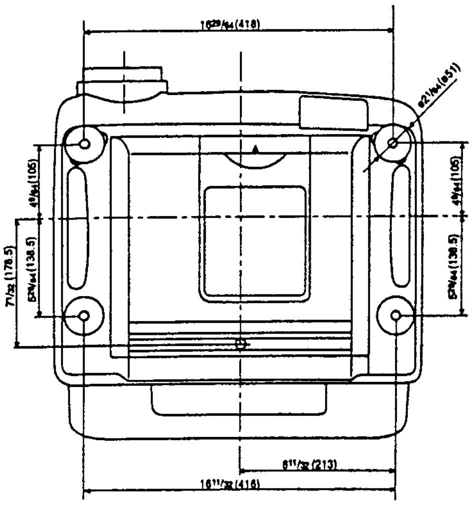
Top View


At maximum zoom
At minimum zoom
2 33/64 (64)
8 5/16 (211)
12 11/64 (309)
7 9/16 (192)
9 19/64 (236)
6 31/32 (177)
4 5/16 (108.5)
23/64 (9)


19 11/16 (500)
6 7/32 (158)
2 37/64 (65.5)
4 1/64 (102)
7 29/32 (201)

Front View

Side View


16 29/64 (418)
ø2 1/64 (ø51)
4 9/64 (105)
5 29/64 (138.5)
7 1/32 (178.5)
4 9/64 (105)
5 29/64 (138.5)
8 11/32 (213)
16 11/32 (416)

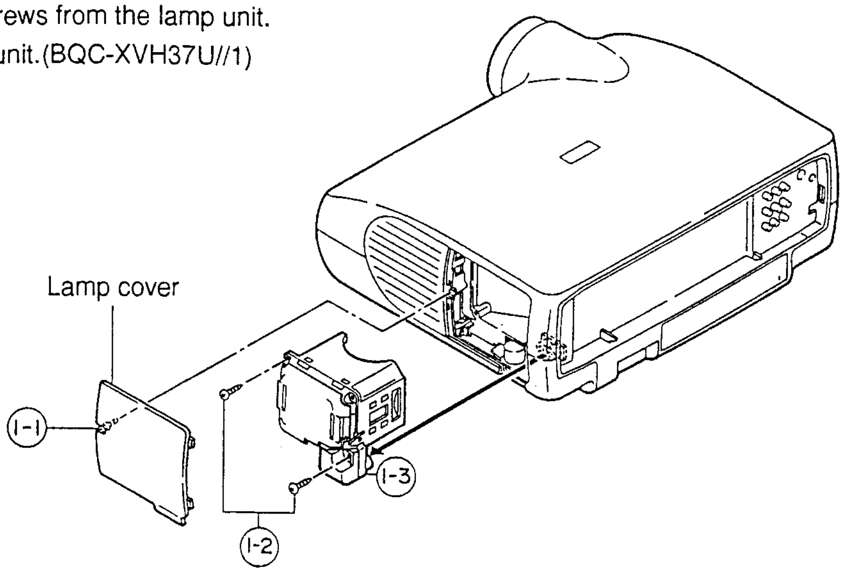
[Units: inches (mm)]

Bottom View

REMOVAL OF MAJOR COMPONENTS

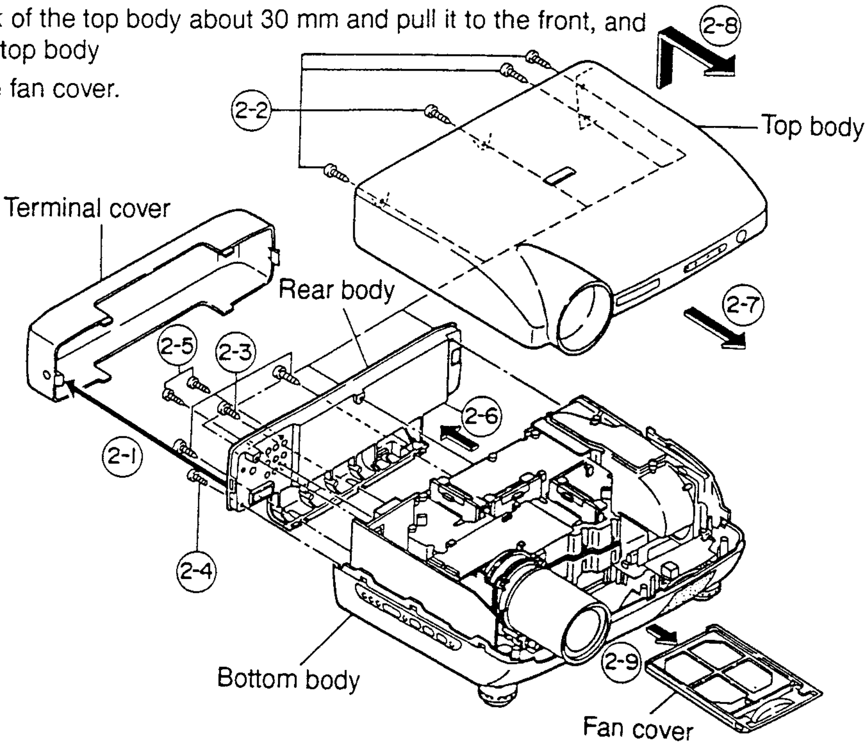
1. Removing the lamp unit

1-1. Remove the screw from the lamp cover and detach the cover.
1-2. Remove the two screws from the lamp unit.
1-3. Draw out the lamp unit.(BQC-XVH37U//1)


Lamp cover
(1-1)
(1-2)
(1-3)

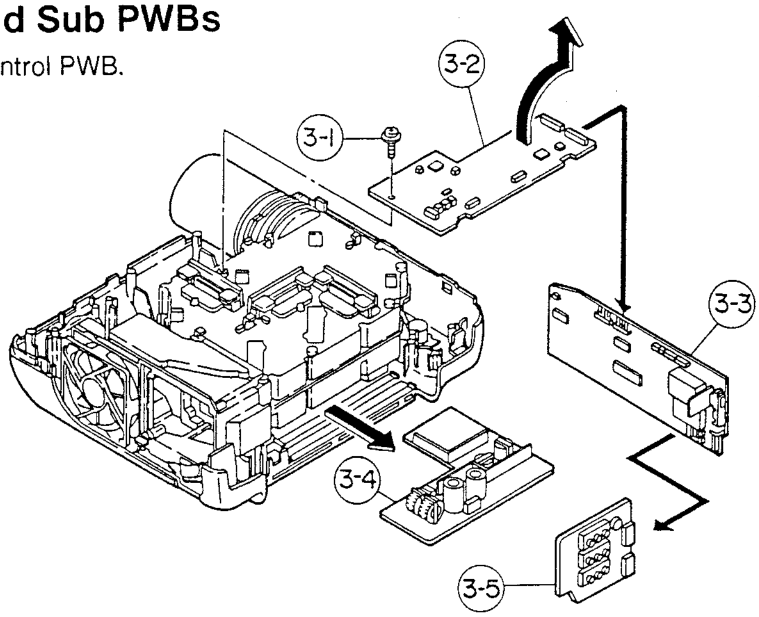
2. Removing the Top and Rear body and the Fan cover.

2-1. Deatach the lugs on both sides of the terminal cover and take it off
2-2. Remove the four screws securing the top body.
2-3. Remove the three screws securing the rear body.
2-4. Remove the screw securing the rear body.
2-5. Remove the two screws off the input PWB.
2-6. Remove the rear body.
2-7. Slide the top body forward about 10 mm.
2-8. Lift the back of the top body about 30 mm and pull it to the front, and remove the top body
2-9. Remove the fan cover.


(2-8)
(2-2)
Top body
Terminal cover
Rear body
(2-7)
(2-5)
(2-3)
(2-6)
(2-1)
(2-4)
Bottom body
(2-9)
Fan cover

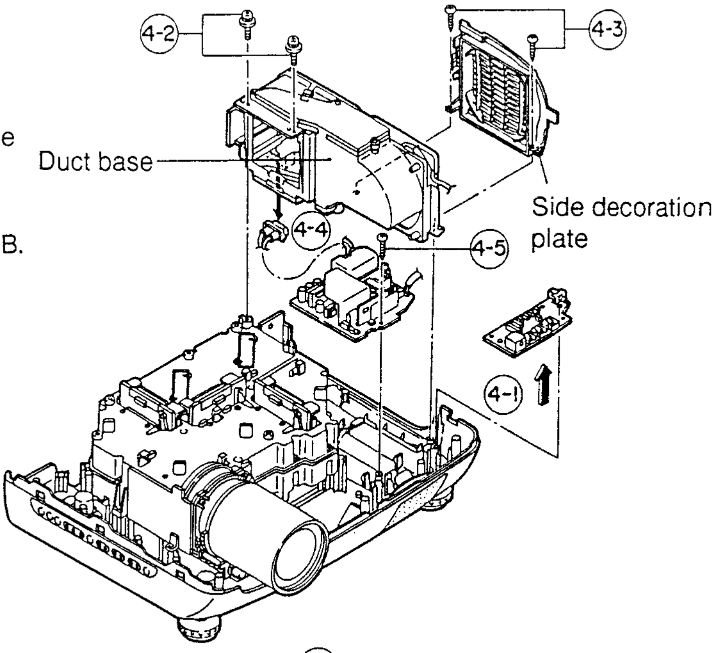
3. Removing the Main and Sub PWBs

3-1. Remove the screw off the Control PWB.
3-2. Take out the Control PWB.
3-3. Take out the Main PWB.
3-4. Take out the Power PWB.
3-5. Take out the Input PWB


3-2
3-1
3-3
3-4
3-5

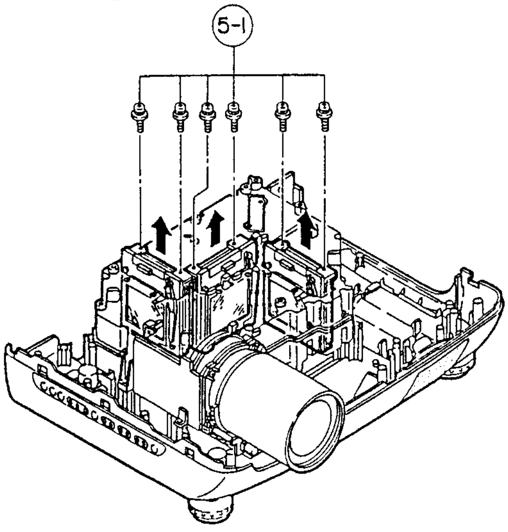
4. Removing the PWBs

4-1. Take out the LED PWB.
4-2. Remove the two screws off the fan unit.
4-3. Remove the two screws off the decorative side panel.
4-4. Disconnect the Ballast PWB socket.
4-5. Remove the screw to take out the Ballast PWB.


4-2
4-3
Duct base
Side decoration plate
4-4
4-5
4-1

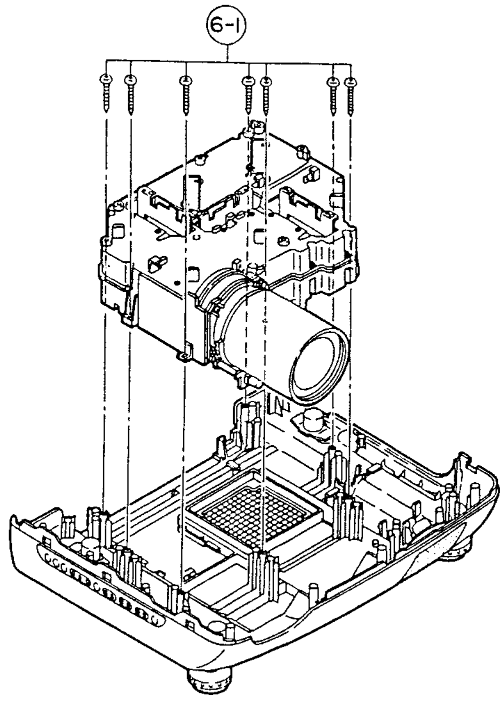
5. Replacing the LCD panels

5-1. Remove the two screws each from the R, G and B LCD panels, and take out the panels.



6. Taking out the optical mechanism

6-1. Remove the seven screws off the optical mechanism, and detach the mechanism.



7. Removal of the Lamp

7-1. To remove the lamp cover.

a) Insert a coin or equivalent spacer between each of the three lugs (A, B, and C shwon at left) and the lamp cover. Now take the lamp cover from the lamp case.

7-2. To remove the lamp leads.

a) Remove the screw and unit.

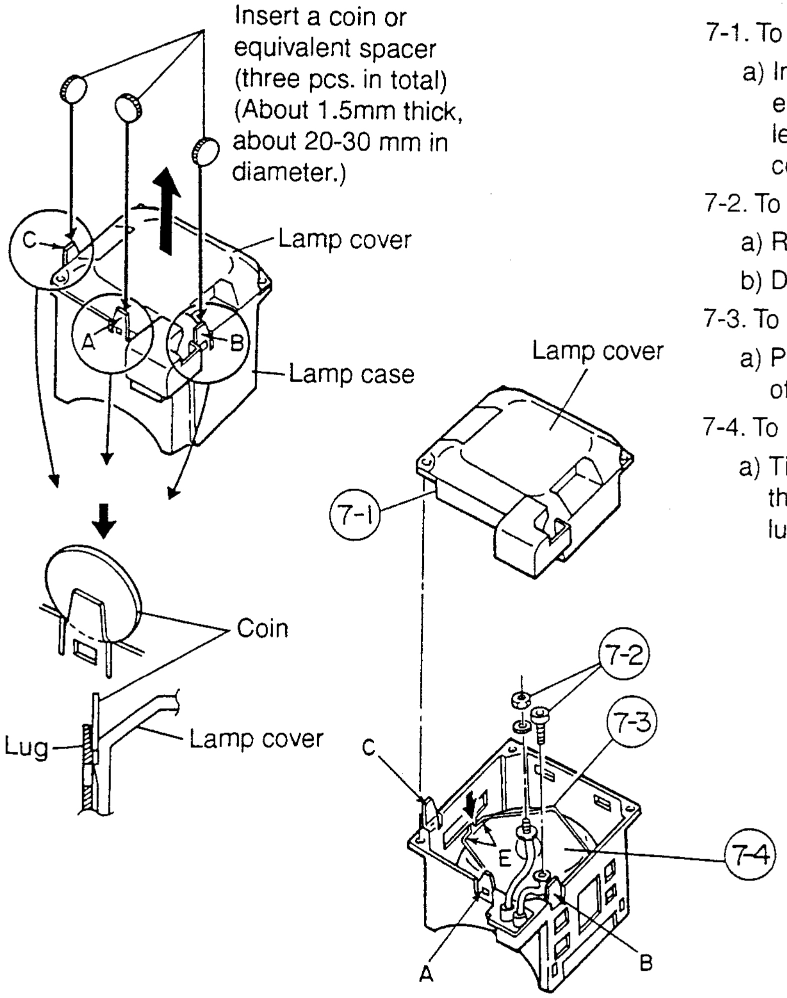
b) Disconnect the lamp leads.

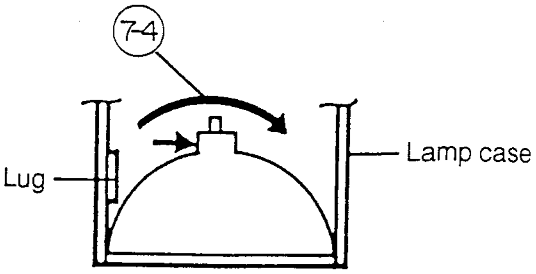
7-3. To remove the lamp retaining spring.

a) Push spring section labeled E in the direction of the arrow (down) to detach from lug.

7-4. To remove teh lamp.

a) Tilt lamp in direction of the arrow by pushing the neck until outer edge of lamp clears the lug.

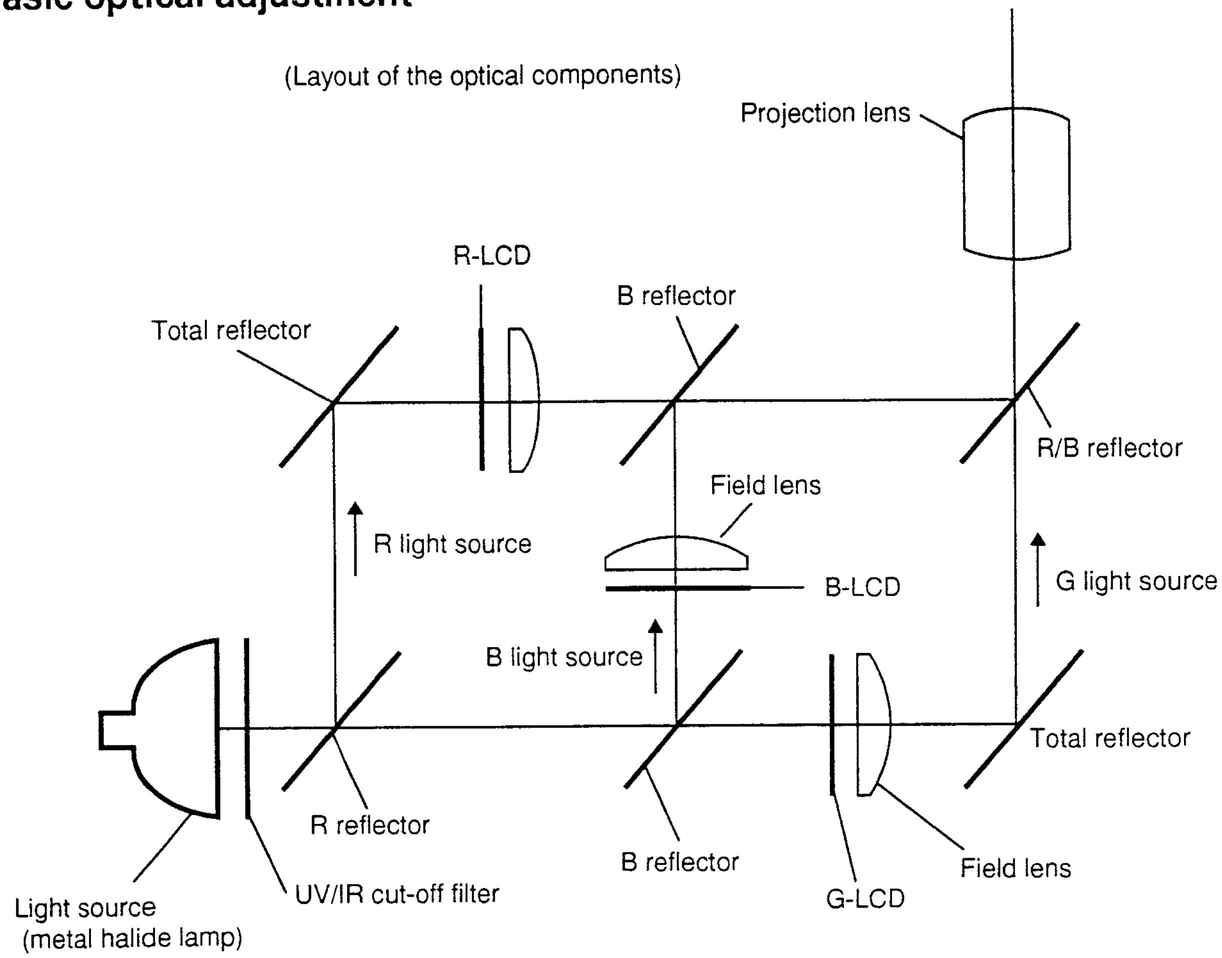

Insert a coin or equivalent spacer (three pcs. in total) (About 1.5mm thick, about 20-30 mm in diameter.)
C
A
B
Lamp cover
Lamp case
Coin
Lug
Lamp cover
Lamp cover
7-1
7-2
7-3
7-4
C
E
A
B


7-4
Lug
Lamp case

THE OPTICAL UNIT OUTLINE

Basic optical adjustment

(Layout of the optical components)


Projection lens
R-LCD
B reflector
Total reflector
R/B reflector
Field lens
R light source
B-LCD
G light source
B light source
Total reflector
R reflector
B reflector
Field lens
UV/IR cut-off filter
G-LCD
Light source
(metal halide lamp)

1. Optical axis alignment

R : Light source – R reflector – Total reflector – R and B reflectors – Projection lens

G : Light source – Total reflector – Projection lens

B : Light source – B reflector – B reflector – R and B reflectors – Projection lens

Adjust the angles of the reflectors boxed above with reference to G light source so that R and B light sources are aligned with G light source when entering the projection lens.

2. LCD parallelism

R : R-LCD unit – Field lens – R/B reflector – Projection lens

G : R-LCD unit – Field lens – Total reflector – Projection lens

B : R-LCD unit – Field lens – B reflector – R/B reflector – Projection lens

Each of the LCD units can be adjusted to improve the view angle and focusing.

■ Cleaning the lenses and reflectors

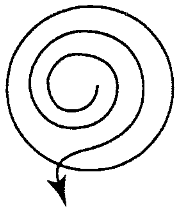
1. Lens cleaning

- agent:

  Change the mixture ratio of alcohol and ether depending on ambient temperatures. Make sure that the liquid evaporates from the lens surface immediately after you rub it: This is the best ratio. The more ether is used, the quicker the liquid evaporates.

- Method:

  Use well-washed bleached cotton or cleaning paper available on the market. Hold the lens, sandwiched in the bleached cotton damped with liquid, with the thumb and the index finger. Turn the lens and wipe the surface clean from the center outward to collect dust. Be careful not to rub the coated surface too strong.



2. Reflector cleaning

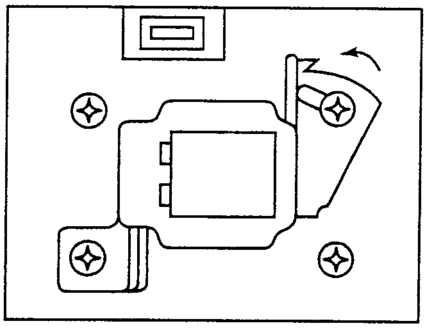
Never rub the reflector strongly because its surface has been deposit-coated. Use some alcohol first and then wipe with dry cloth if the surface is slightly dirty.

3. Precaution

The picture quality is greatly affected if both sides of the LCD unit and the LCD side of the field lenses are dirty . Pay enough attention to these surface.

■ Adjustment after LCD panel replacement

No angular adjustment of the polarizing plate is needed because of the improved angular precision. Just turn all the way counterclockwise and fix at that position.



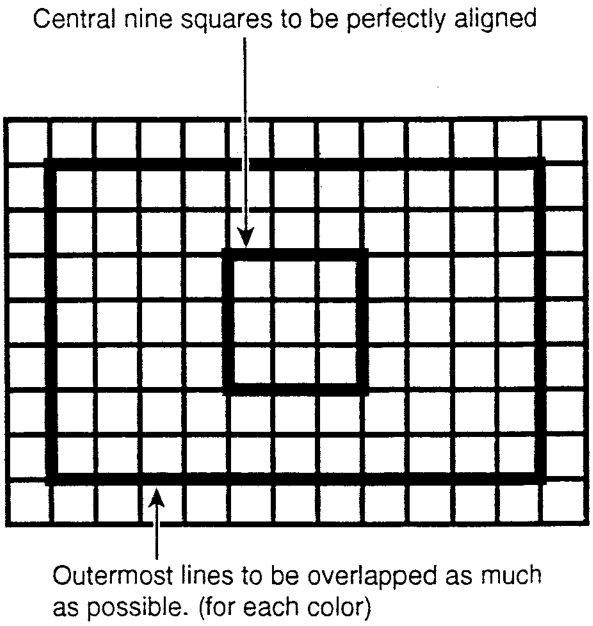
X and Y adjustment

1. Tools required

(1) Shielding plate (hard coated cardboard to cut off light rays)
(2) Pattern generator

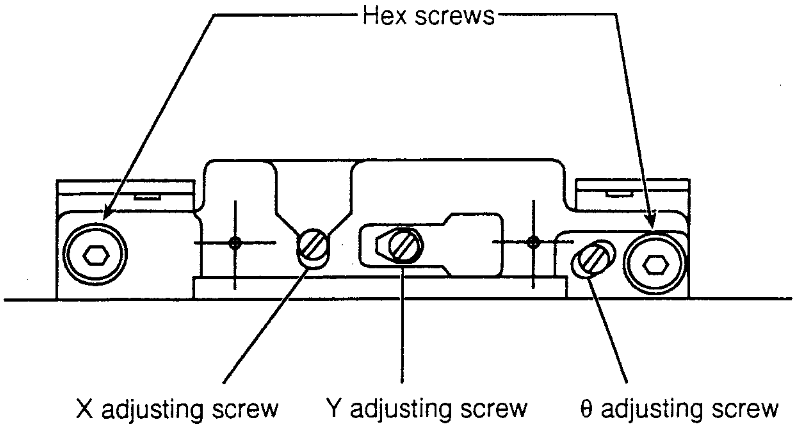
2. Adjustment references

(1) Use the G panel as reference. Adjust the R and B panels to the G panel.
(2) Perfectly align the central nine squares to the projection pattern.
(3) Keep the outermost lines overlapped as much as possible.


Central nine squares to be perfectly aligned
Outermost lines to be overlapped as much as possible. (for each color)

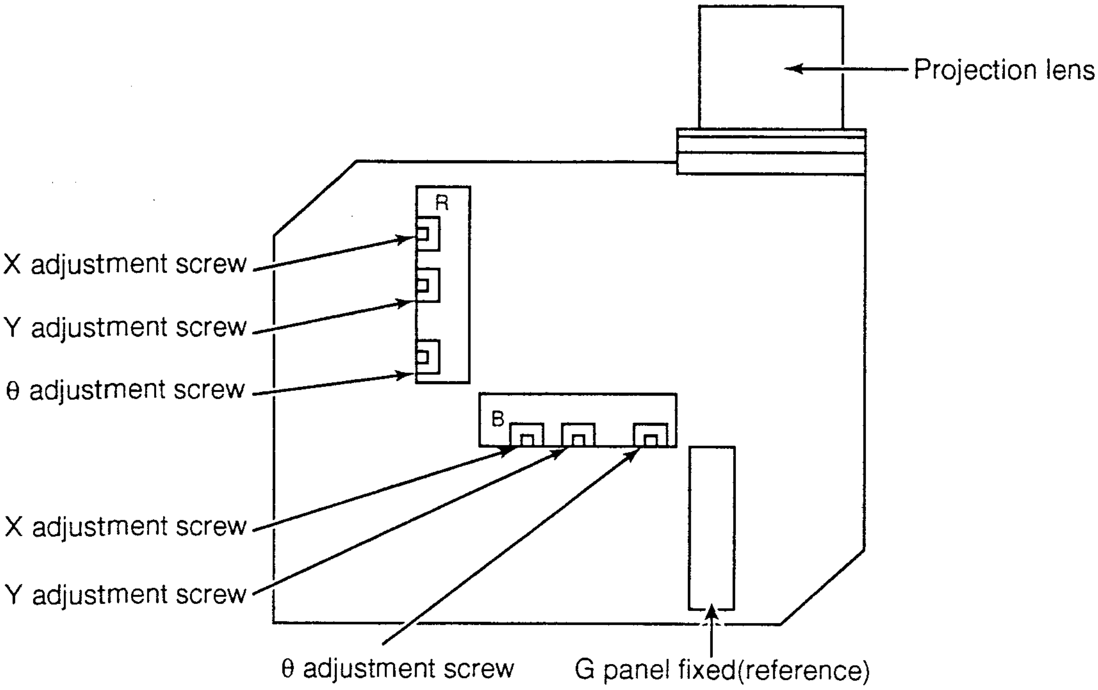
3. Adjustment procedures

(1) Loosen two hex screws each for the R-LCD panel and the B-LCD panel. (4 screws total)
(2) Input the grid signal from the pattern generator.
(3) Align the R-LCD panel.
- Put the shielding plate in front of the B-LCD panel. (To cutoff the B light source.)
- Adjust the X axis for horizontal direction.
- Adjust the Y axis for vertical direction.
- Adjust the θ direction for tilting.


Hex screws
X adjusting screw
Y adjusting screw
θ adjusting screw

(4) Align the B-LCD panel.
- Put the shielding plate in front of the R-LCD panel. (To cutoff R light source.)
- Overlap the B squares on the G squares.
- Adjust the X axis for horizontal direction.
- Adjust the Y axis for vertical direction.
- Adjust the θ direction for tilting.

(5) Tighten up the four hex screw (loosened in step (1) above) to 13 ± 1 kg-cm.


Projection lens
R
X adjustment screw
Y adjustment screw
θ adjustment screw
B
X adjustment screw
Y adjustment screw
θ adjustment screw
G panel fixed(reference)

Adjustment screw	Roatating direction	R	B
θ	Clockwise	Right side up	Right side down
	Counterclockwise	Right side down	Right side up
Y	Clockwise	Lowered	Raised
	Counterclockwise	Raised	Lowered
X	Clockwise	Moves to right	Moves to left
	Counterclockwise	Moves to left	Moves to right

ADJ. IN FUNCTION

1. Outline

This function is intended to make various adjustments using the ADJ. IN. switch (S2002) and membrane switch of the projector.

2. Keys used

[S2002], [MENU], [INPUT SELECT], [SELECT UP:▲], [SELECT DOWN:▼], [ADJUST+:>], [ADJUST-:<], [VIDEO+/-], [BRIGHT+/-], [COLOR+/-], and [TINT+/-]

3. Last memory items

Adjustment items: The previous settings in the ADJ. IN. mode are put in memory.

Adjustment data for all the items

4. Procedures

4-1. Call the ADJ. IN. mode using the [ADJ. IN.] switch.

4-2. With the [SELECT UP], [SELECT DOWN], [ADJUST+] and [ADJUST-] keys, select a desired group of adjustment items. Press the [MENU] key.

4-3. With the ▲, ▼, < and > keys, pick up a desired adjustment item in the group. Press the [MENU] key. (By pushing the ▲ or ▼ key, the adjustment items in the group change one after the other.)

4-4. Press the [INPUT SELECT] key, and the just previously displayed adjustment item comes back on the screen.

4-5. If the [ADJ. IN.] switch is pressed in the ADJ. IN. mode, the mode is called off. (The display in the ADJ. IN. mode is all expressed in English.)

5. Groups of adjustment items

VIDEO 1	VIDEO 2	VIDEO 3	MASK	N • W
SUB-DC SUB-C TINT COLOR PICTURE BRIGHT	CB-R CB-G CB-B SUB-BIAS R-DRIVE R-BIAS R-DRIVE R-BIAS	PAL-SUB-C BELL-FO SCM-R-Y SCE-B-Y PN-AMP SCM-AMP PAL-H	TOP BOTTOM	RED GREEN BLUE WHITE N • W

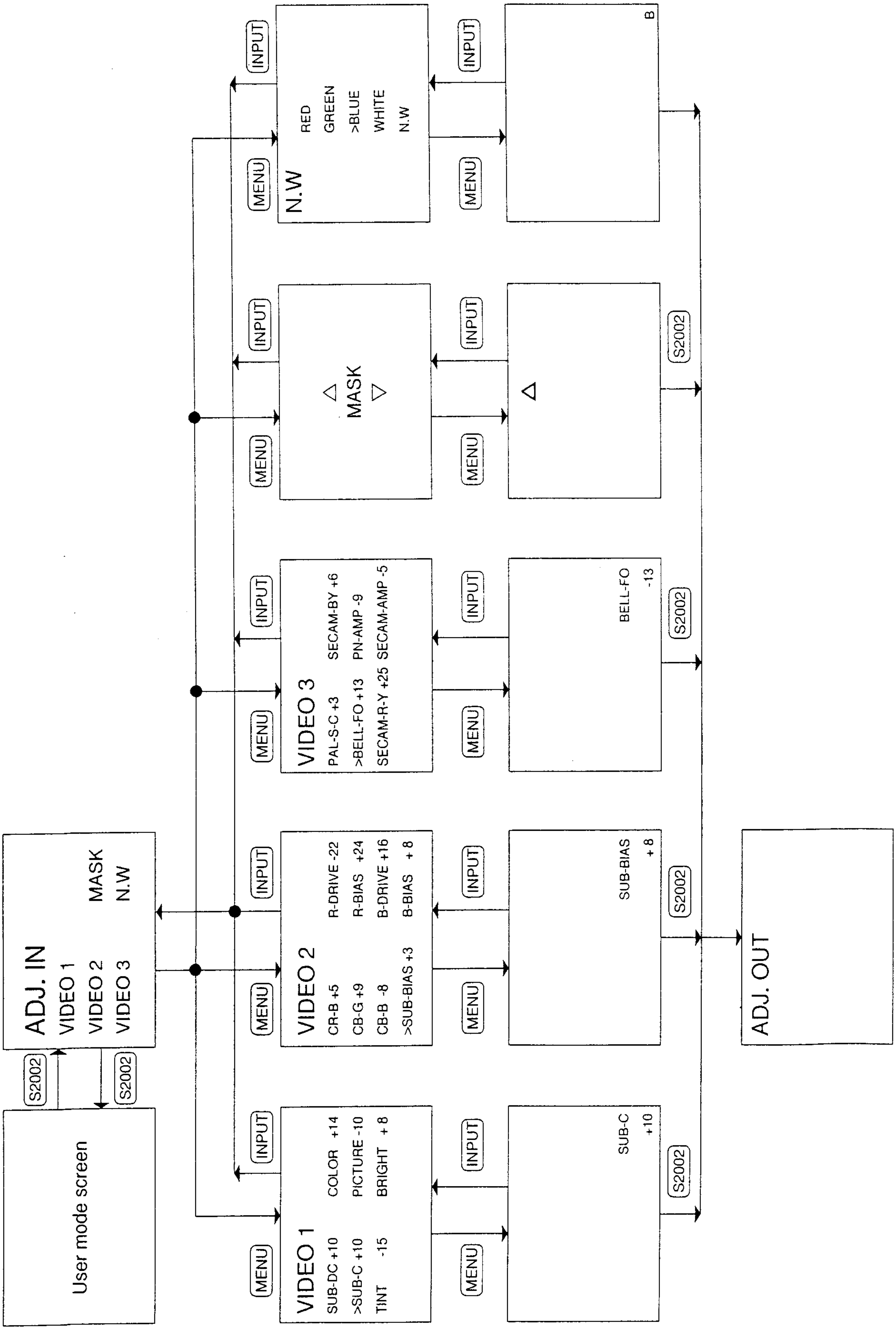
In the video input mode: VIDEO 1-3, MASK, N.W

NOTE : VIDEO 3 display apperars on the screen, but not used for this model.

DAC OPERATION

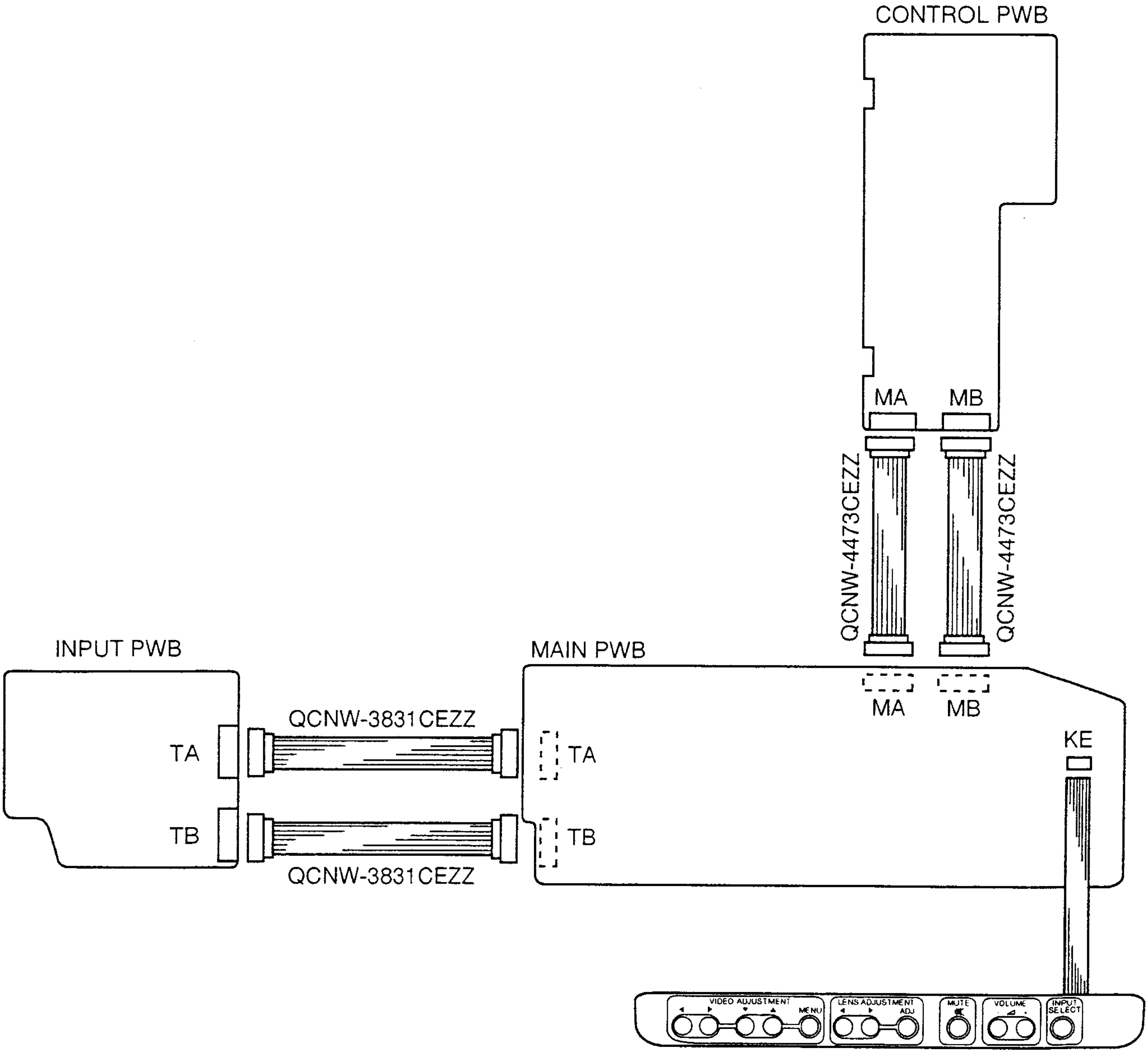
VIDEO 1	
SUB-DC:	Sub-DC adjustment
SUB-C:	Sub-contrast adjustment
TINT:	Tint adjustment
COLOR:	Color adjustment
PICTURE:	Picture adjustment
BRIGHT:	Brightness adjustment
VIDEO 2	
CB-R:	Counterbias adjustment for red only
CB-G:	Counterbias adjustment for green only
CB-B:	Counterbias adjustment for blue only
SUB-BIAS:	Not used
R-DRIVE:	White balance (red) drive adjustment
R-BIAS:	White balance (red) bias adjustment
B-DRIVE:	White balance (blue) drive adjustment
B-BIAS:	White balance (blue) bias adjustment
VIDEO 3 (This display apperars on the screen, but not used for this model.)	
PAL-SUB-C:	PAL sub-contrast adjustment
BELL-FO:	Bell filter adjustment
SCM-R-Y:	SECAM R-Y adjustment
SCM-B-Y:	SECAM B-Y adjustment
PN-AMP:	PN amplitude adjustment
SCM-AMP:	SECAM amplitude adjustment
PAL-H:	Horizontal phase adjustment
MASK	Masking adjustments
TOP:	Masking positioning for top-half screen
BOTTOM:	Masking positioning for bottom-half screen
N.W	Single-color displays
R:	Red
G:	Green
B:	Blue
W:	White
N.W:	White

FLOWCHART OF ADJUSTMENT


User mode screen
S2002
S2002
ADJ. IN
VIDEO 1
VIDEO 2
VIDEO 3
MASK
N.W
MENU
INPUT
VIDEO 1
SUB-DC +10
>SUB-C +10
TINT -15
COLOR +14
PICTURE -10
BRIGHT +8
SUB-C
+10
VIDEO 2
CR-B +5
CB-G +9
CB-B -8
>SUB-BIAS +3
R-DRIVE -22
R-BIAS +24
B-DRIVE +16
B-BIAS +8
SUB-BIAS
+8
VIDEO 3
PAL-S-C +3
>BELL-FO +13
SECAM-R-Y +25
SECAM-BY +6
PN-AMP -9
SECAM-AMP -5
BELL-FO
-13
MASK
△
▽
△
N.W
RED
GREEN
>BLUE
WHITE
N.W
B
S2002
ADJ. OUT

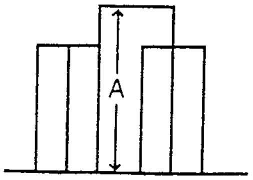
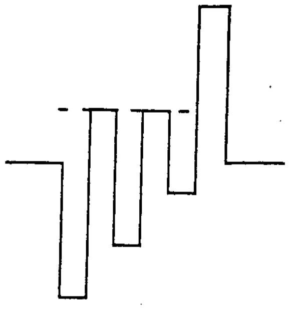
Connecting the Extension Servicing Cables.

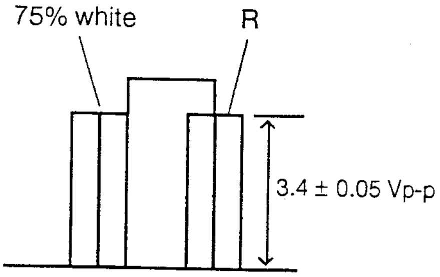
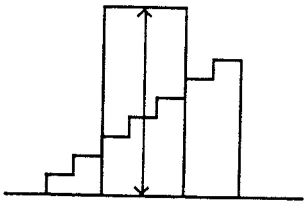
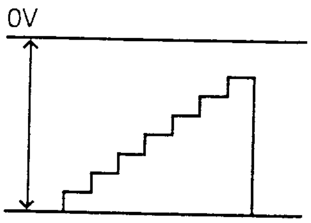
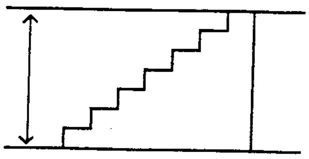
Disconnect the AC cord plug first and then connect the extension cables.

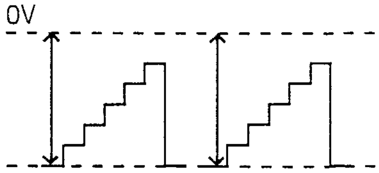
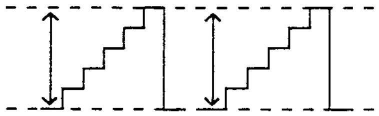
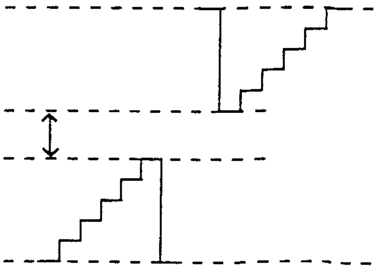

CONTROL PWB
MA
MB
QCNW-4473CEZZ
QCNW-4473CEZZ
INPUT PWB
MAIN PWB
MA
MB
QCNW-3831CEZZ
TA
TA
TB
TB
QCNW-3831CEZZ
KE
VIDEO ADJUSTMENT
MENU
LENS ADJUSTMENT
ADJ
MUTE
VOLUME
INPUT SELECT
QSW-Z0040CEZZ
Membrene switch for servicing

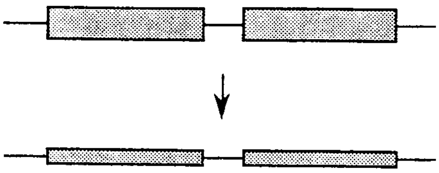
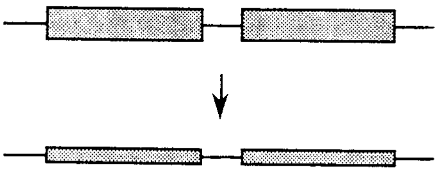
ELECTRICAL ADJUSTMENT

NOTE: The settings have been factory-adjusted to their best points. If any of them gets out of spec or after any relevant part has been replaced, make the related adjustment.

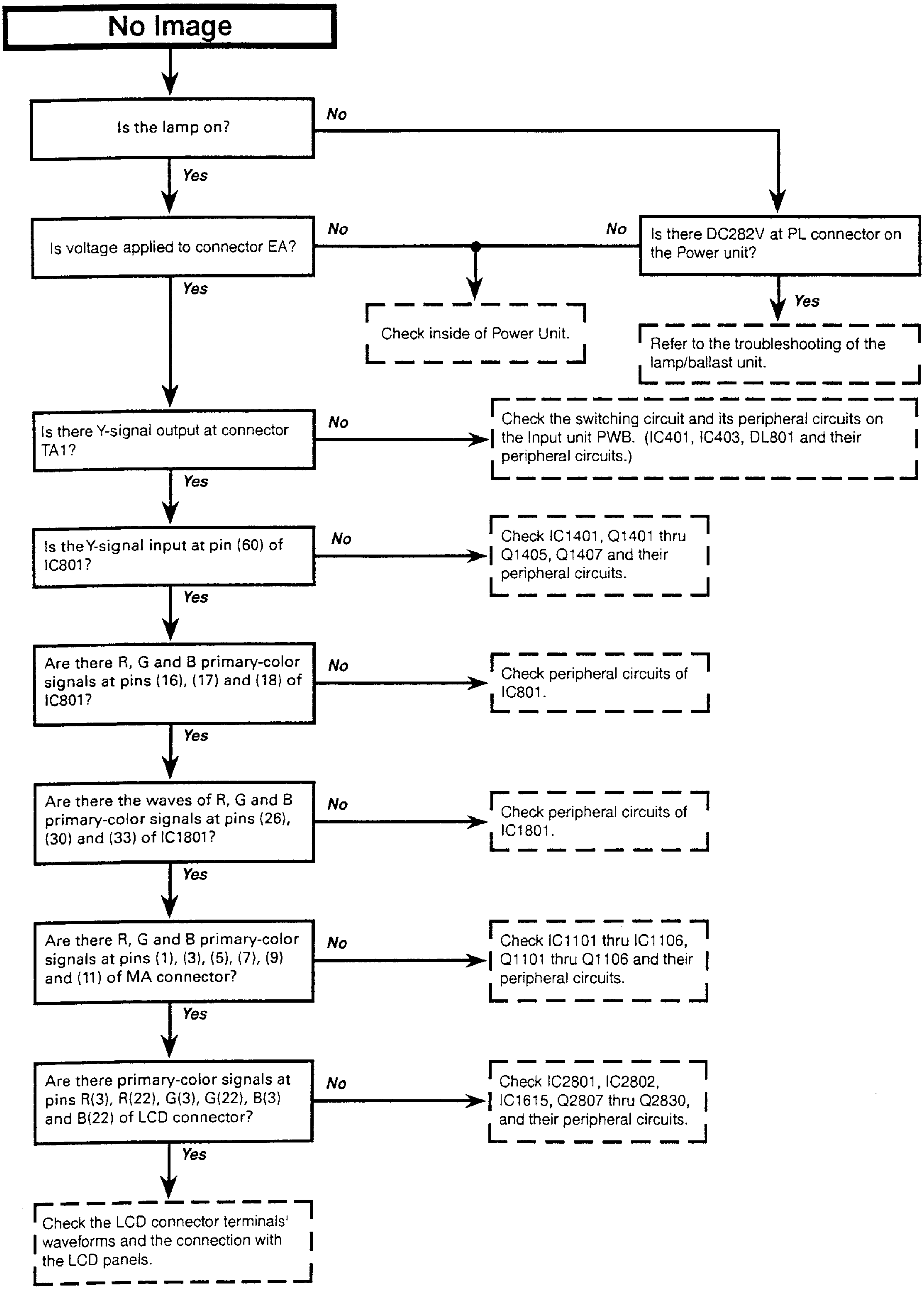
Step	Adjustment position	Adjustment condition	Adjustment method
1	**VCO primary OSC L1601 (Control Unit)**	1. Receive the monoscope pattern signal. 2. Push S1601.	• Adjust the L1601 so the image appears on the screen. After adjustment, take off the S1601.
2	**H-center R1628**	1. Receive the monocsope pattern signal.	• Using the R1603, adjust H-center.
3	**Sub DC (DAC)**	1. Receive the color bar signal. 2. Push S2002 and set the follow DAC mode Group : VIDEO 1 Subject : Sub DC 3. Connect the oscilloscope to pin (5) of SC800.	• Using DAC +/-key, adjust the black level as same as pedestal level.
4	**Sub contrast (DAC)**	1. Select the S801 in the AGC off mode. (Open R1222 by S801.) 2. Receive the color bar signal. 3. Push S2002 and set the follow DAC mode. Group : VIDEO 1 Subject : Sub C 4. Connect the oscilloscope to pin (6) of SC801.	• Using the DAC +/- key on the membrane switch, adjust the "A" level of the pedestal and 100% white waves to 3.4 ± 0.05 Vp-p.  A: 3.4 ± 0.05 Vp-p
5	**TINT (DAC)**	1. Receive the color bar signal. 2. Push S2002 and set the follow DAC mode. Group : Video 1 Subject : TINT 3. Connect the oscilloscope to TP801.	• Adjust B-Y waveform same Cy and Mg by +/- key on membrane switch. (Refer to below waveform) 

Step	Adjustment position	Adjustment condition	Adjustment method
6	**Color** **(DAC)**	1. Receive the color bar signal. 2. Push S2002 and set the follow DAC mode. Group : Video 1 Subject : Color 3. Connect the oscilloscope to pin (5) of SC800.	• Adjust the level between R and pedestal as being3.4 ± 0.05 Vp-p by +/- key on membrane switch. 
7	**AGC** **R1212**	1. Select the S801 in the AGC on mode. (R1222 connected) 2. Receive the color bar signal. 3. Connect the oscilloscope to pin (5) of SC800.	• Adjust the level between 100% white and pedestal level 3.0 ± 0.05 Vp-p. 
8	**Bright** **(DAC)** **AGC ON**	1. Receive the color bar signal. 2. Push S2002 and set the follow DAC mode. Group : Video 1 Subject : Bright 4. Connect the oscilloscope to pin (4) of SC1800.	• Adjust the pedestal level of signal DC -4.9 ± 0.05 Vp-p by +/- key on membrane switch. 
9	**Picture** **(DAC)** **AGC ON**	1. Receive the 10-step gray scale signal. 2. Connect the oscilloscope to pin (4) of SC1800.	• Adjust the level between pedestal and white as being 3.8 ± 0.05 Vp-p by +/- key on membrane switch. 

Step	Adjustment position	Adjustment condition	Adjustment method
10	**R-Drive** **B-Bias** **(DAC)**	1. Receive the 10-step gray scale signal. 2. Push S2002 and set the follow DAC mode. Group : Video 2 Subject : R-Bias (and B-Bias) 3. Connect the oscilloscope in between pin (4) of SC1800 to CH1, and its pin (3) or pin (5) of SC1800 to CH2.	• Adjust DC lebel of "G" black tone as same as "R" and "B" black tone by +/- key on membrane switch. 
11	**R-Drive** **B-Drive** **(DAC)**	1. Receive the 10-step gray scale signal. 2. Push S2002 and set the follow DAC mode. Group : Video 2 Subject : R-Bias (and B-Bias) 3. Connect the oscilloscope in between pin (4) of SC1800 to CH1, and its pin (3) or pin (5) of SC1800 to CH2.	• Adjust the signal lebel of "G" signals as same as "R" and "B" signal by +/- key on membrane switch. 
12	**γ-correct** **R1144** **R1150**	1. Receive the 10-step gray scale signal. 2. Connect the voltmeter to pin (2) of SC1101 and GND. 3. Connect the voltmeter to pin (1) of SC1101 and GND.	• Adjust DC voltage at -3.65 ± 0.05 V by R1144. • Adjust DC voltage at -4.65 ± 0.05 V by R1150.
13	**White peak** **R1165**	1. Receive the 10-step gray scale signal. 2. Connect the oscilloscope to pin (4) of P1605.	• Adjust R1165 to make the level between the white partions as being 1.8 ± 0.05 Vp-p. 

Step	Adjustment position	Adjustment condition	Adjustment method
14	**R-White balance** **R1162**	1. Receive the monoscope pattern signal. 2. Connect the oscilloscope in between pin (4) of P1605 to CH1 of , and its pin (2) of P1605 to CH2. Add CH1 and inverted CH2.	• Adjust R1163 to be minimized amplitude of the waveform. 
15	**B-White balance** **R1159**	1. Receive the monoscope pattern signal. 2. Turn to R1505 so that counterclockwise. (back side of PWB) 3. Connect the oscilloscope in between pin (4) of P1605 to CH1 of , and its pin (6) of P1605 to CH2. Add CH1 and inverted CH2.	• Adjust R1165 to be minimized amplitude of the waveform. 
16	**Color shade adj. between left and right** **R1505**	1. Receive the monoscope pattern signal.	• Adjust R1505 so that the color shade between the right and left is minimized.
17	**Common DC bias** **R1678 : R** **R1673 : G** **R1664 : B**	1. Receive the monoscope pattern signal. 2. Push S2002 and set the follow DAC mode. Group : Video 2 Subject : CB-R, CB-G, CB-B	• Adjust R1678, R1673 and R1664, to get a maximum contrast.
18	**Masking Adjustment** **(DAC)**	1. Receive the monoscope pattern signal. 2. Push S2002 and set the follow DAC mode. Group : MASK Subject : TOP, BOTTOM	• Using the video adjustment +/-key, adjust the upper and lower overscan to 95% respectively.
19	**Sign Display Position** **(T2001)**	1. Receive the monoscope pattern signal.	• Adjust T2001 to be focus pattern in the center of the screen, and letters focus will not be out of horizontal resolution lines.

TROUBLE SHOOTING TABLE



No Image

Is the lamp on?

Is there DC282V at PL connector on the Power unit?

Refer to the troubleshooting of the lamp/ballast unit.

Is voltage applied to connector EA?

Check inside of Power Unit.

Is there Y-signal output at connector TA1?

Check the switching circuit and its peripheral circuits on the Input unit PWB. (IC401, IC403, DL801 and their peripheral circuits.)

Is the Y-signal input at pin (60) of IC801?

Check IC1401, Q1401 thru Q1405, Q1407 and their peripheral circuits.

Are there R, G and B primary-color signals at pins (16), (17) and (18) of IC801?

Check peripheral circuits of IC801.

Are there the waves of R, G and B primary-color signals at pins (26), (30) and (33) of IC1801?

Check peripheral circuits of IC1801.

Are there R, G and B primary-color signals at pins (1), (3), (5), (7), (9) and (11) of MA connector?

Check IC1101 thru IC1106, Q1101 thru Q1106 and their peripheral circuits.

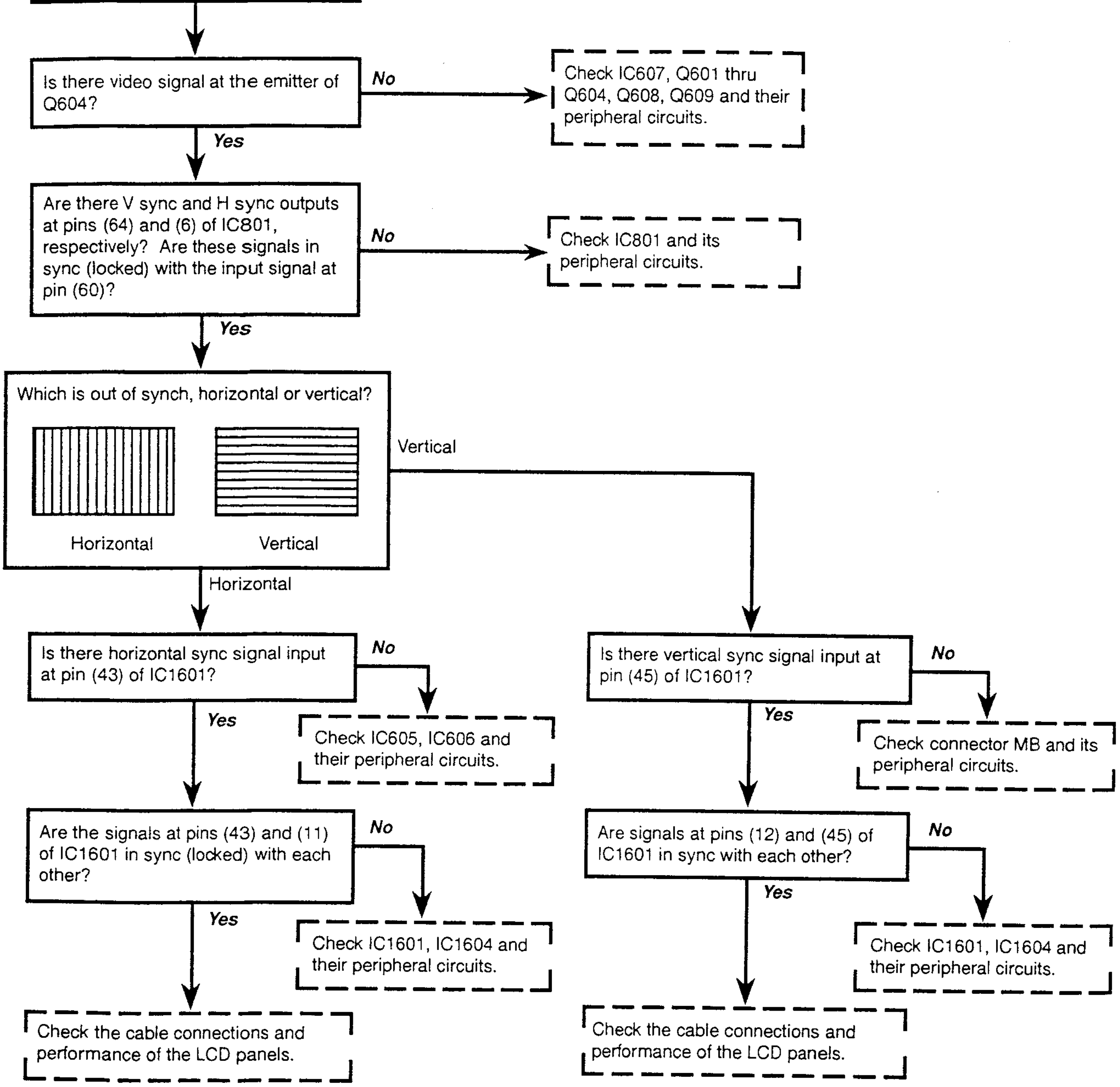
Are there primary-color signals at pins R(3), R(22), G(3), G(22), B(3) and B(22) of LCD connector?

Check IC2801, IC2802, IC1615, Q2807 thru Q2830, and their peripheral circuits.

Check the LCD connector terminals' waveforms and the connection with the LCD panels.

TROUBLE SHOOTING TABLE (Continued)

No Synchronization



Is there video signal at the emitter of Q604?

Check IC607, Q601 thru Q604, Q608, Q609 and their peripheral circuits.

Are there V sync and H sync outputs at pins (64) and (6) of IC801, respectively? Are these signals in sync (locked) with the input signal at pin (60)?

Check IC801 and its peripheral circuits.

Which is out of synch, horizontal or vertical?

Is there horizontal sync signal input at pin (43) of IC1601?

Check IC605, IC606 and their peripheral circuits.

Are the signals at pins (43) and (11) of IC1601 in sync (locked) with each other?

Check IC1601, IC1604 and their peripheral circuits.

Check the cable connections and performance of the LCD panels.

Is there vertical sync signal input at pin (45) of IC1601?

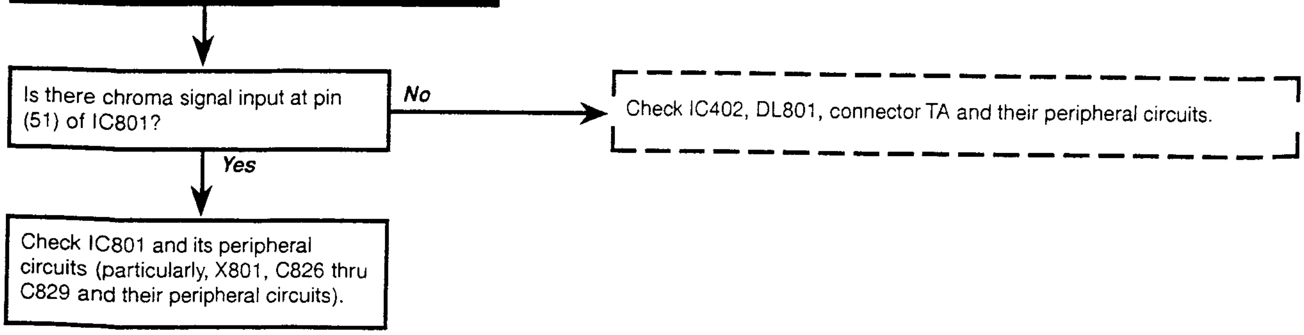
Check connector MB and its peripheral circuits.

Are signals at pins (12) and (45) of IC1601 in sync with each other?

Check IC1601, IC1604 and their peripheral circuits.

Check the cable connections and performance of the LCD panels.

No Color or Unusual Tint

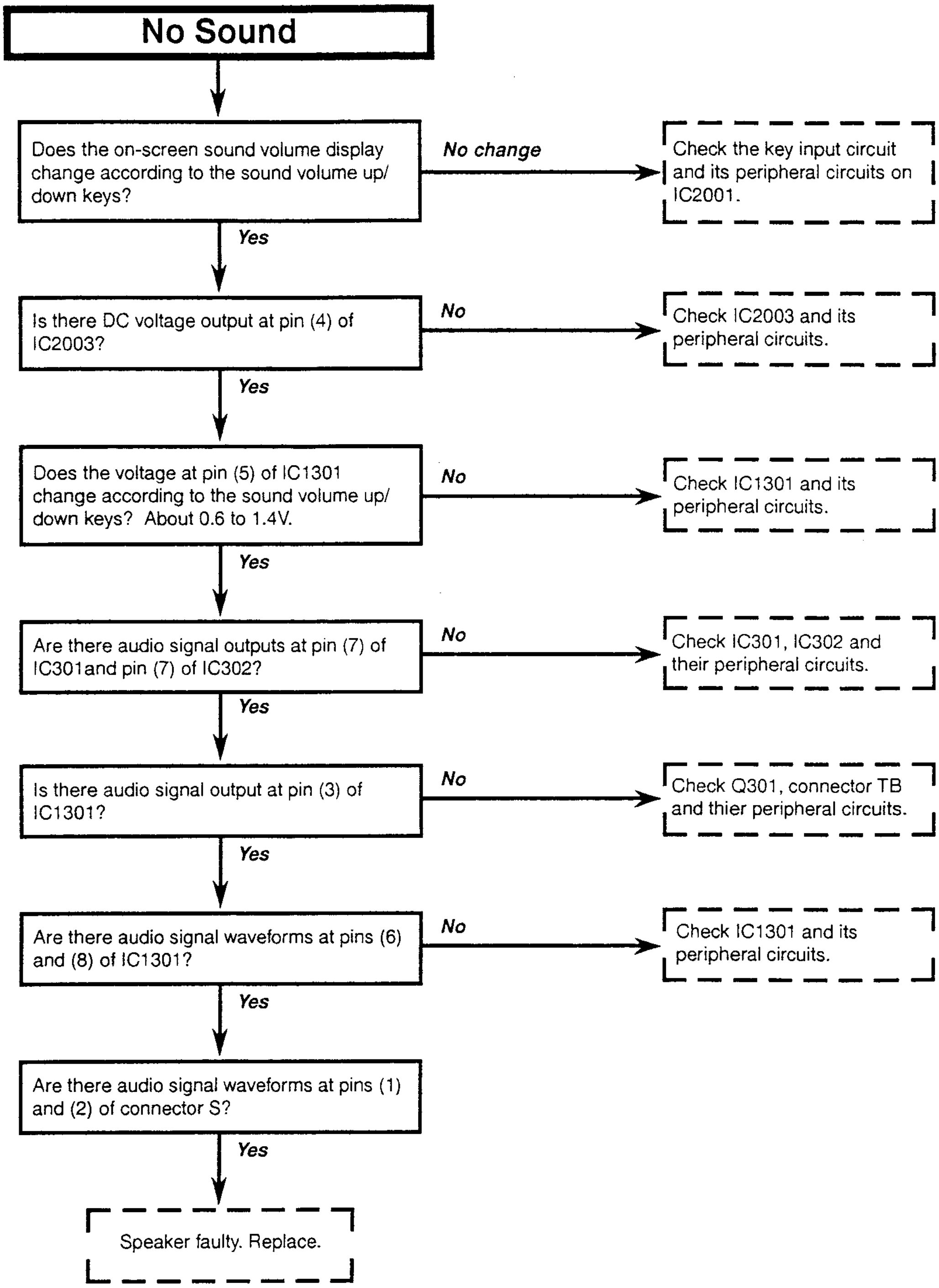


Is there chroma signal input at pin (51) of IC801?

Check IC402, DL801, connector TA and their peripheral circuits.

Check IC801 and its peripheral circuits (particularly, X801, C826 thru C829 and their peripheral circuits).

TROUBLE SHOOTING TABLE (Continued)



No Sound

Does the on-screen sound volume display change according to the sound volume up/down keys?

Check the key input circuit and its peripheral circuits on IC2001.

Is there DC voltage output at pin (4) of IC2003?

Check IC2003 and its peripheral circuits.

Does the voltage at pin (5) of IC1301 change according to the sound volume up/down keys? About 0.6 to 1.4V.

Check IC1301 and its peripheral circuits.

Are there audio signal outputs at pin (7) of IC301and pin (7) of IC302?

Check IC301, IC302 and their peripheral circuits.

Is there audio signal output at pin (3) of IC1301?

Check Q301, connector TB and thier peripheral circuits.

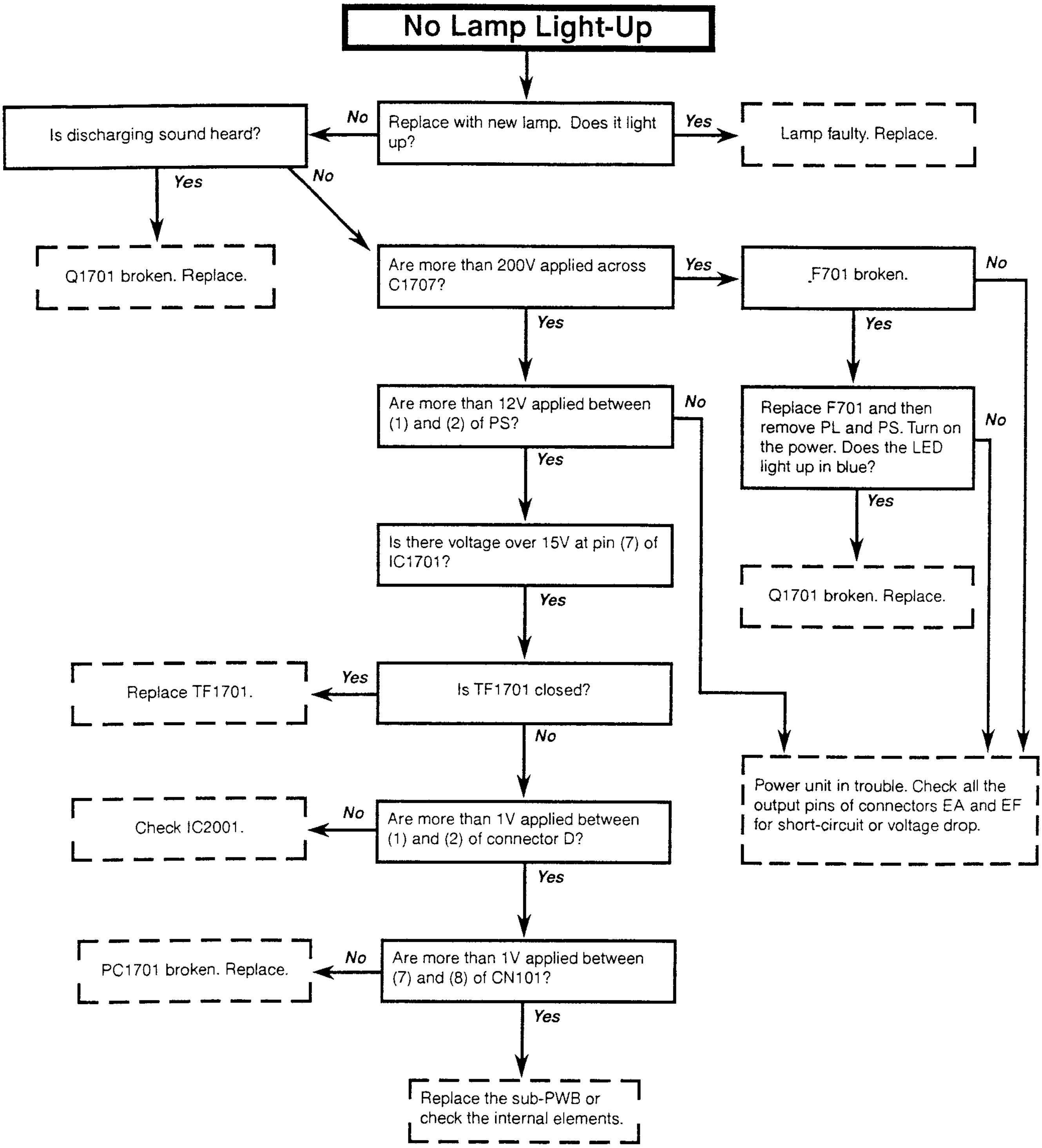
Are there audio signal waveforms at pins (6) and (8) of IC1301?

Check IC1301 and its peripheral circuits.

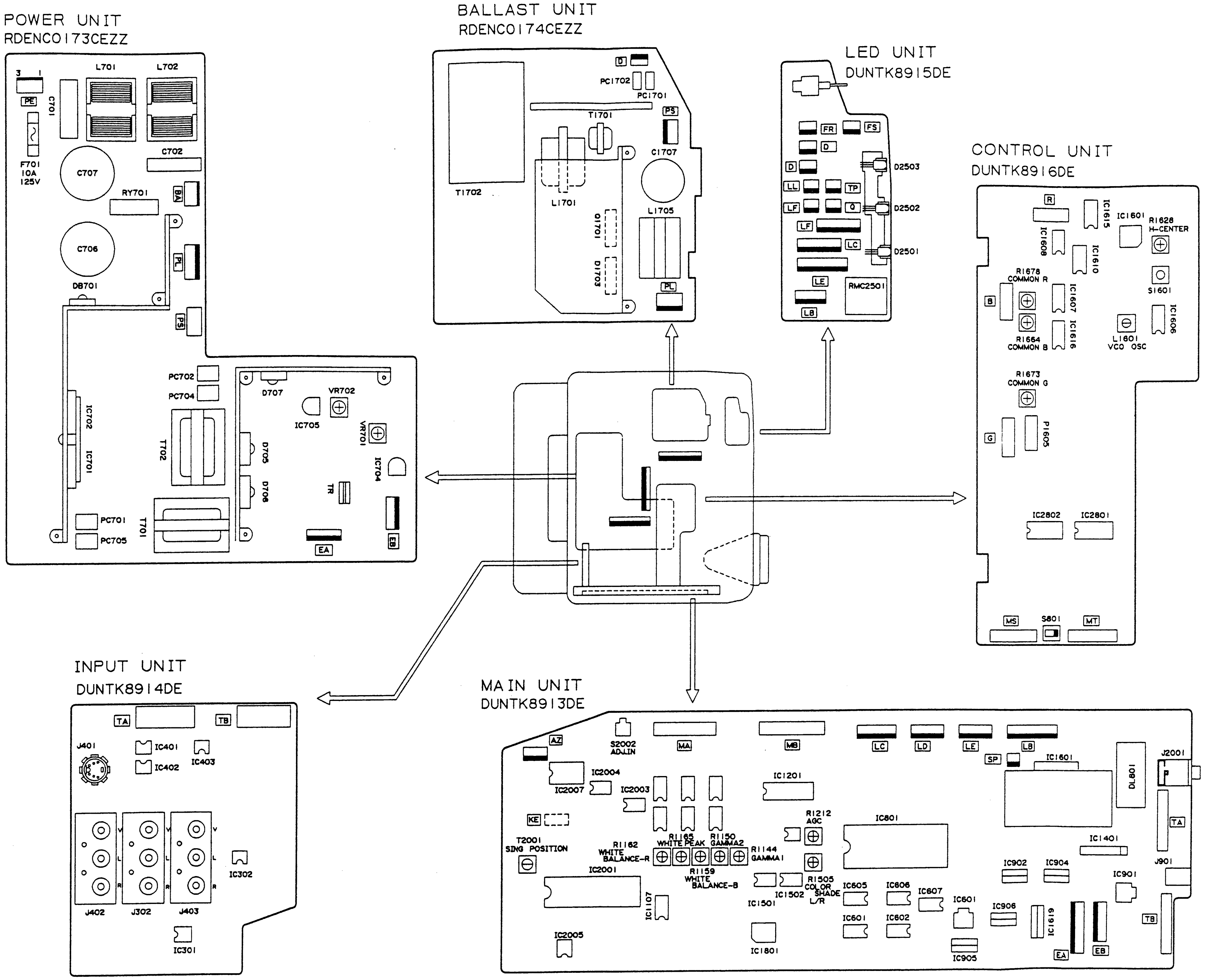
Are there audio signal waveforms at pins (1) and (2) of connector S?

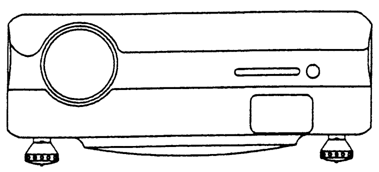
Speaker faulty. Replace.

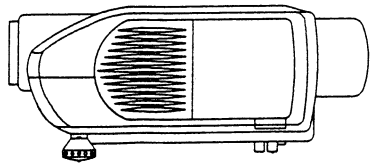
TROUBLE SHOOTING TABLE (Continued)

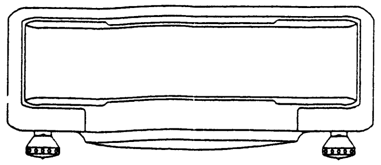

No Lamp Light-Up
Replace with new lamp. Does it light up?
Yes
Lamp faulty. Replace.
No
Is discharging sound heard?
Yes
Q1701 broken. Replace.
No
Are more than 200V applied across C1707?
Yes
F701 broken.
No
Yes
Replace F701 and then remove PL and PS. Turn on the power. Does the LED light up in blue?
No
Yes
Q1701 broken. Replace.
Yes
Are more than 12V applied between (1) and (2) of PS?
No
Yes
Is there voltage over 15V at pin (7) of IC1701?
Yes
Is TF1701 closed?
Yes
Replace TF1701.
No
Power unit in trouble. Check all the output pins of connectors EA and EF for short-circuit or voltage drop.
Are more than 1V applied between (1) and (2) of connector D?
No
Check IC2001.
Yes
Are more than 1V applied between (7) and (8) of CN101?
No
PC1701 broken. Replace.
Yes
Replace the sub-PWB or check the internal elements.

CHASSIS LAYOUT

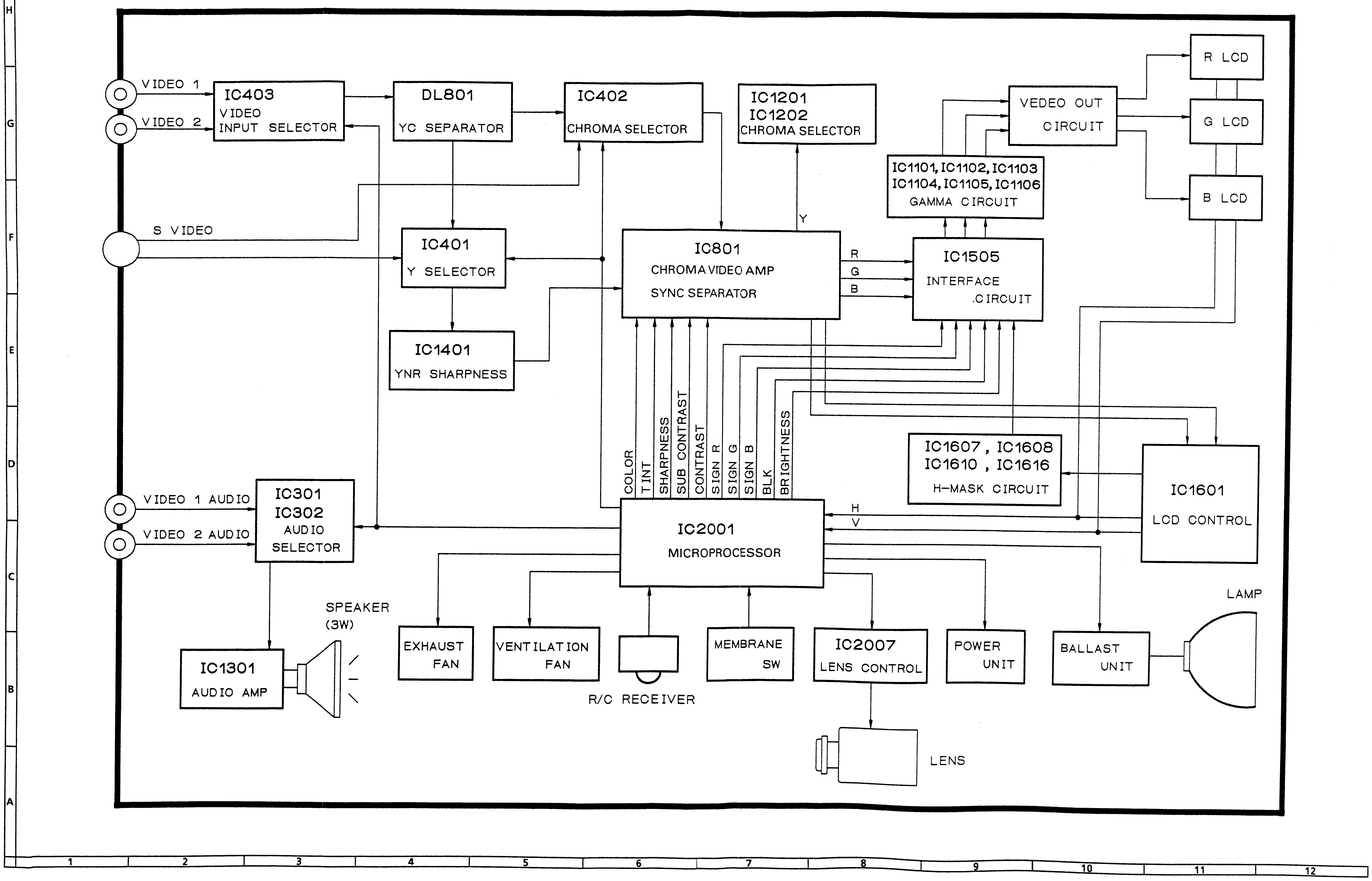

POWER UNIT
RDENC0173CEZZ
L701
L702
PE
C701
F701
10A
125V
C707
C702
RY701
BA
C706
PL
DB701
PS
PC702
PC704
D707
VR702
IC705
IC702
IC701
T702
D705
D706
VR701
IC704
TR
PC701
PC705
T701
EA
EB
BALLAST UNIT
RDENC0174CEZZ
D
PC1702
PC1701
T1701
PS
C1707
T1702
L1701
D1701
L1705
D1703
PL
LED UNIT
DUNTK8915DE
FR
FS
D
D2503
LL
TP
LF
Q
D2502
LC
D2501
LE
RMC2501
LB
CONTROL UNIT
DUNTK8916DE
R
IC1615
IC1601
R1628
H-CENTER
IC1608
IC1610
R1678
COMMON R
S1601
B
IC1607
IC1606
R1664
COMMON B
IC1616
L1601
VCO OSC
R1673
COMMON G
G
P1605
IC2802
IC2801
MS
S801
MT
INPUT UNIT
DUNTK8914DE
TA
TB
J401
IC401
IC402
IC403
IC302
J402
J302
J403
IC301
MAIN UNIT
DUNTK8913DE
AZ
S2002
ADJ.IN
MA
MB
LC
LD
LE
LB
SP
IC1601
DL801
J2001
IC2004
IC2007
IC2003
IC1201
KE
R1212
AGC
IC801
T2001
SING POSITION
R1162
WHITE BALANCE-R
R1165
WHITE PEAK
R1150
GAMMA2
R1144
GAMMA1
IC1401
TA
R1159
WHITE BALANCE-B
IC2001
R1505
COLOR SHADE L/R
IC1502
IC1501
IC605
IC606
IC607
IC902
IC904
IC901
J901
IC601
IC601
IC602
IC906
IC1619
IC1107
IC2005
IC1801
IC905
EA
EB
TB







BLOCK DIAGRAM


VIDEO 1
VIDEO 2
IC403
VIDEO
INPUT SELECTOR
DL801
YC SEPARATOR
IC402
CHROMA SELECTOR
IC1201
IC1202
CHROMA SELECTOR
VEDEO OUT
CIRCUIT
R LCD
G LCD
B LCD
IC1101, IC1102, IC1103
IC1104, IC1105, IC1106
GAMMA CIRCUIT
S VIDEO
IC401
Y SELECTOR
IC801
CHROMA VIDEO AMP
SYNC SEPARATOR
Y
R
G
B
IC1505
INTERFACE
CIRCUIT
IC1401
YNR SHARPNESS
COLOR
TINT
SHARPNESS
SUB CONTRAST
CONTRAST
SIGN R
SIGN G
SIGN B
BLK
BRIGHTNESS
IC1607, IC1608
IC1610, IC1616
H-MASK CIRCUIT
IC1601
LCD CONTROL
H
V
VIDEO 1 AUDIO
VIDEO 2 AUDIO
IC301
IC302
AUDIO
SELECTOR
IC2001
MICROPROCESSOR
SPEAKER
(3W)
IC1301
AUDIO AMP
EXHAUST
FAN
VENTILATION
FAN
R/C RECEIVER
MEMBRANE
SW
IC2007
LENS CONTROL
POWER
UNIT
BALLAST
UNIT
LAMP
LENS
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/10W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.

©: Solid	Ⓦ: Cement
Ⓢ: Oxide Film	Ⓣ : Special
Ⓝ: Metal Coating	

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.

(ML): Mylar	(TA): Tantalum
(PF): Polypro Film	(ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

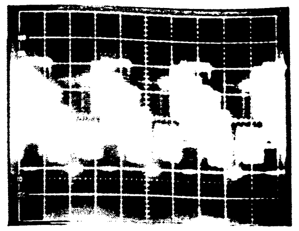
SAFETY NOTE:

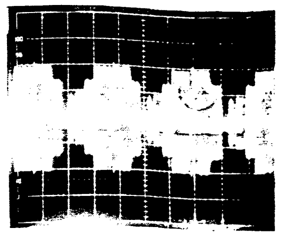
1. ***DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.***
2. ***SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.***

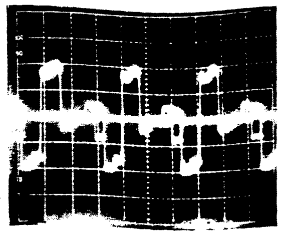
IMPORTANT SAFETY NOTICE:

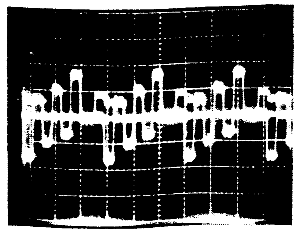
PARTS MARKED WITH "⚠ (▨) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

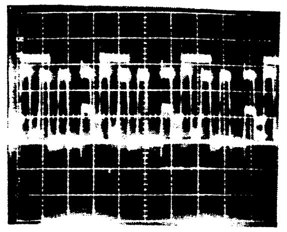
WAVEFORMS

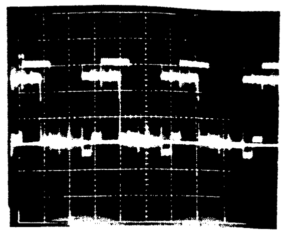

① 0.5V/div, 20μsec/div

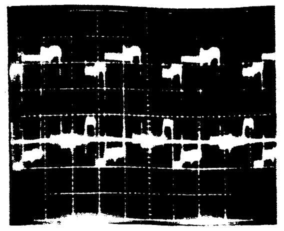

② 0.2V/div, 20μsec/div

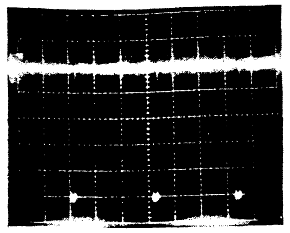

③ 0.2V/div, 20μsec/div

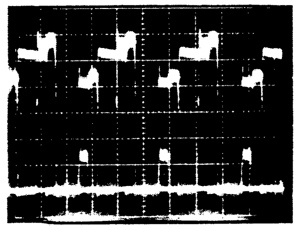

④ 0.2V/div, 20μsec/div

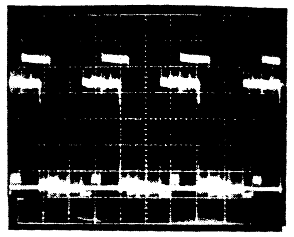

⑤ 1V/div, 20μsec/div

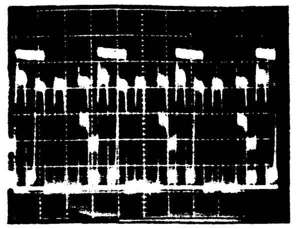

⑥ 1V/div, 20μsec/div

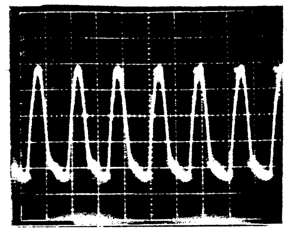

⑦ 1V/div, 20μsec/div

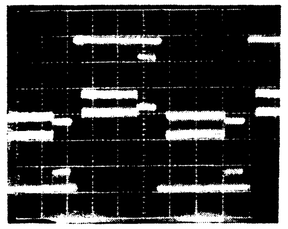

⑧ 1V/div, 20μsec/div

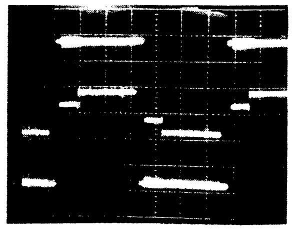

⑨ 1V/div, 20μsec/div

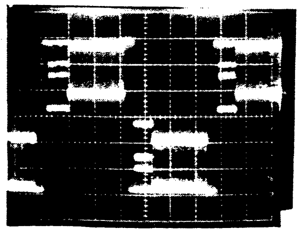

⑩ 1V/div, 20μsec/div


⑪ 1V/div, 20μsec/div

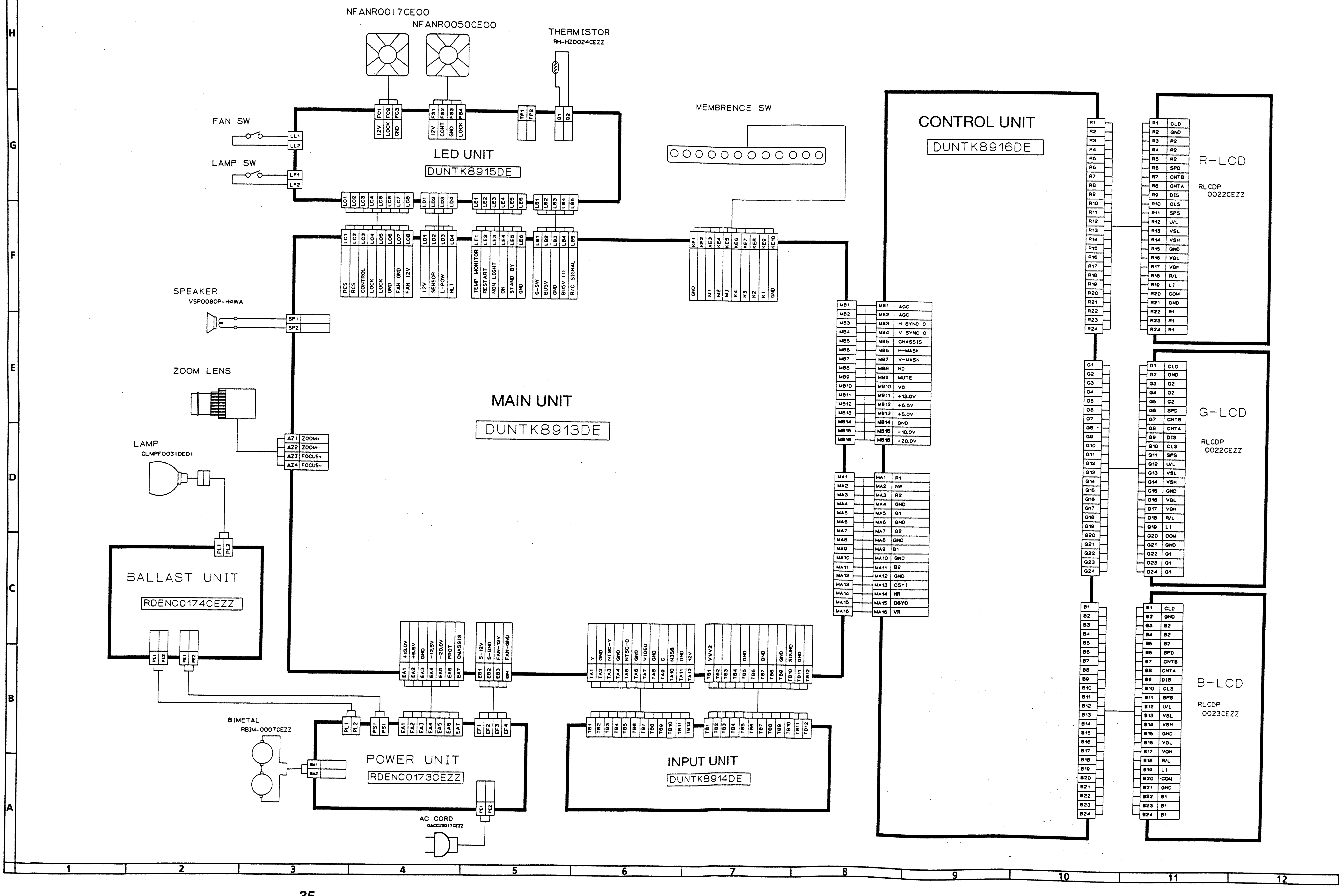

⑫ 0.1V/div, 0.1μsec/div


⑬ 2V/div, 5msec/div

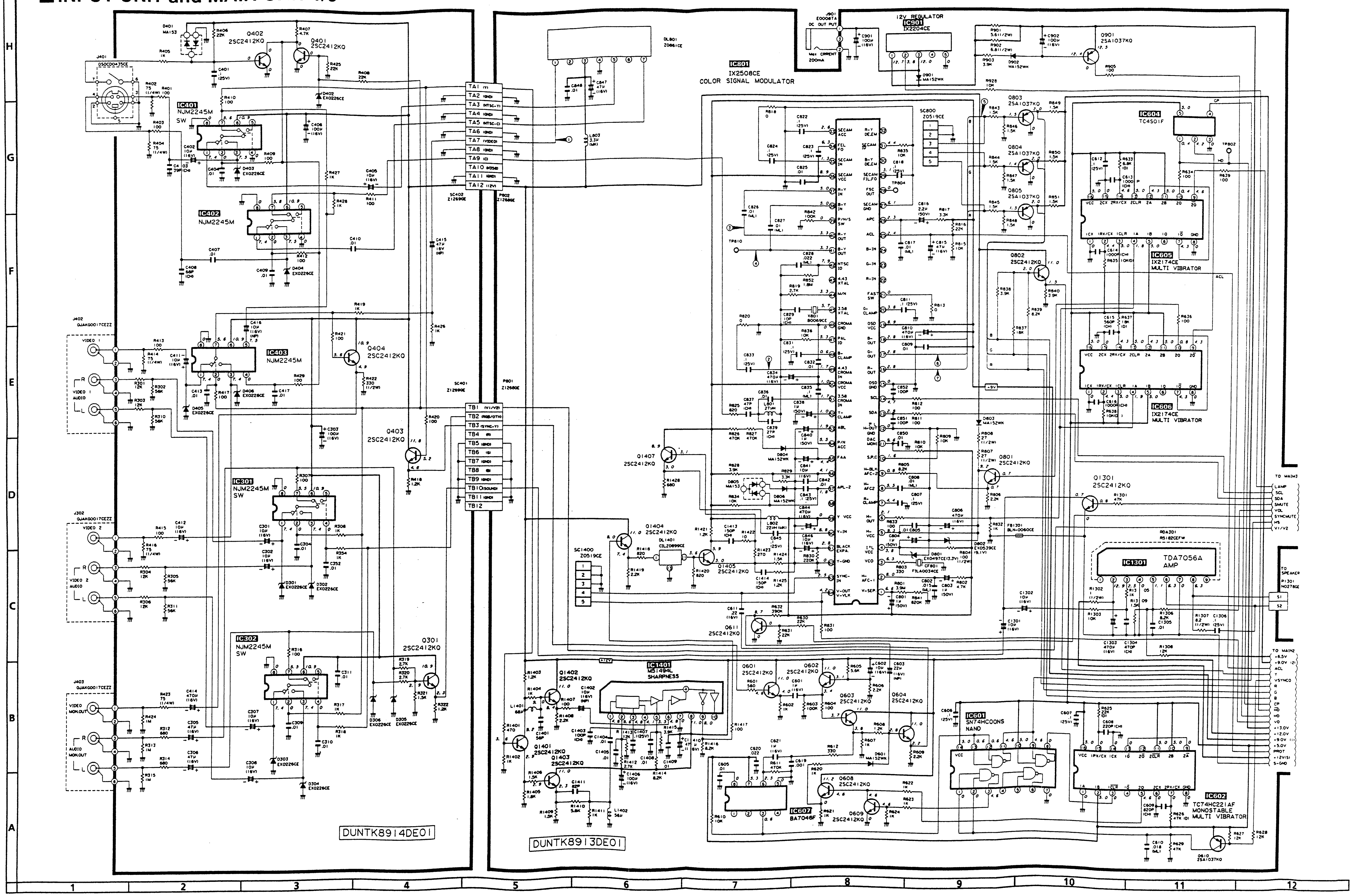

⑭ 2V/div, 5msec/div


⑮ 2V/div, 5msec/div

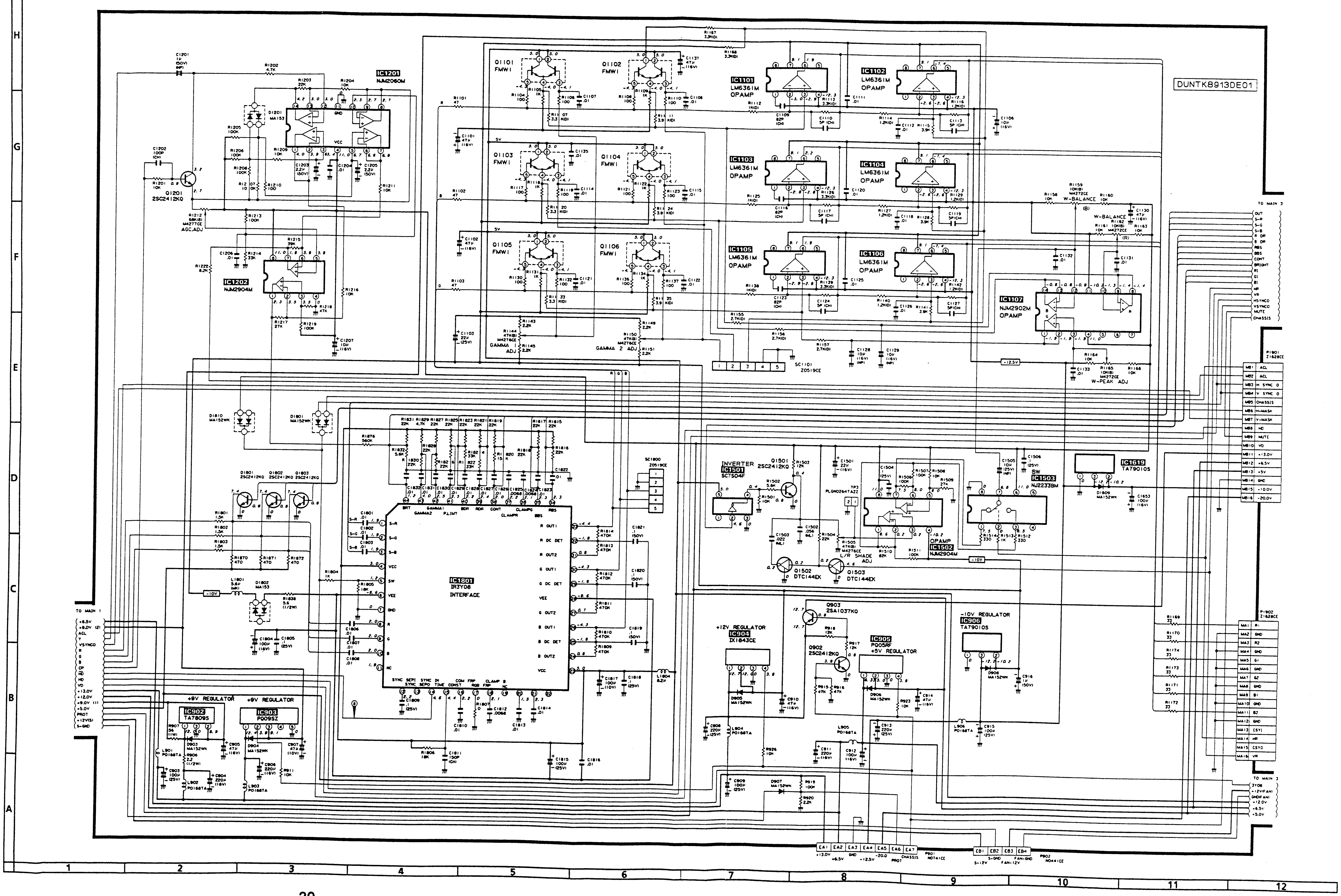
OVERALL WIRING DIAGRAM


NFANR0017CE00
NFANR0050CE00
THERMISTOR
RH-HZ0024CEZZ
FAN SW
LAMP SW
LED UNIT
DUNTK8915DE
MEMBRENCE SW
CONTROL UNIT
DUNTK8916DE
R-LCD
RLCDP 0022CEZZ
G-LCD
RLCDP 0022CEZZ
B-LCD
RLCDP 0023CEZZ
SPEAKER
VSP0080P-H4WA
ZOOM LENS
LAMP
CLMPF0031DE01
MAIN UNIT
DUNTK8913DE
BALLAST UNIT
RDENC0174CEZZ
BIMETAL
RBIM-0007CEZZ
POWER UNIT
RDENC0173CEZZ
AC CORD
QACCU3017CEZZ
INPUT UNIT
DUNTK8914DE
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

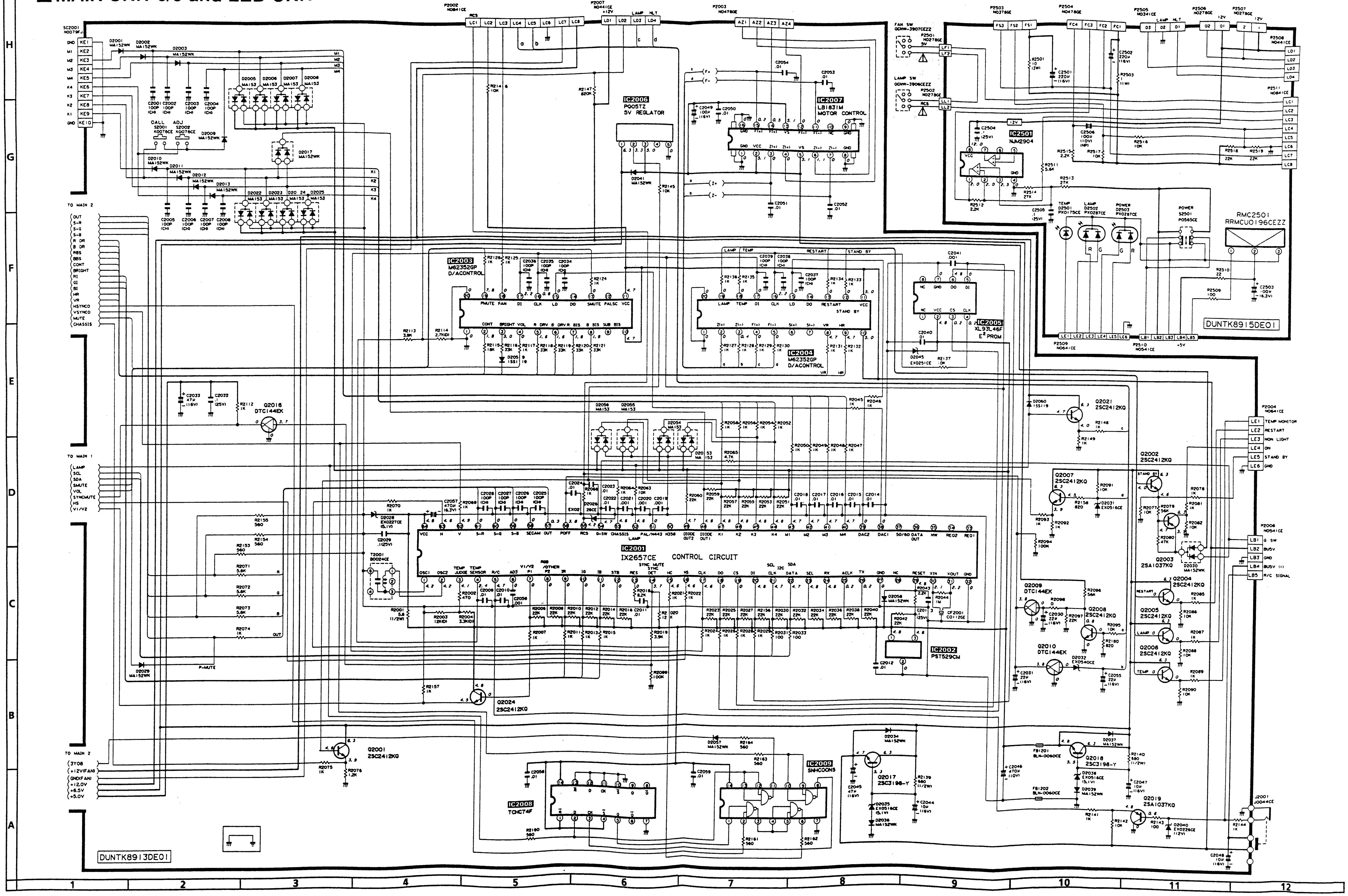
■INPUT UNIT and MAIN UNIT-1/3


IC401 NJM2245M SW
IC402 NJM2245M
IC403 NJM2245M
IC301 NJM2245M SW
IC302 NJM2245M SW
J401
J402
J302
J403
VIDEO 1
VIDEO 2
VIDEO MONI.OUT
AUDIO MONI.OUT
DUNTK8914DE01
DUNTK8913DE01
DL801
IC801 IX2508CE COLOR SIGNAL MODULATOR
12V REGULATOR IC901 IX2204CE
IC604 TC4501F
IC605 IX2174CE MULTI VIBRATOR
IC606 IX2174CE MULTI VIBRATOR
IC1301 TDA7056A AMP
IC1401 M51494L SHARPNESS
IC601 SN74HC00NS NAND
IC602 TC74HC221AF MONOSTABLE MULTI VIBRATOR
IC607 BA7046F
TO MAIN3
TO SPEAKER
TO MAIN2
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

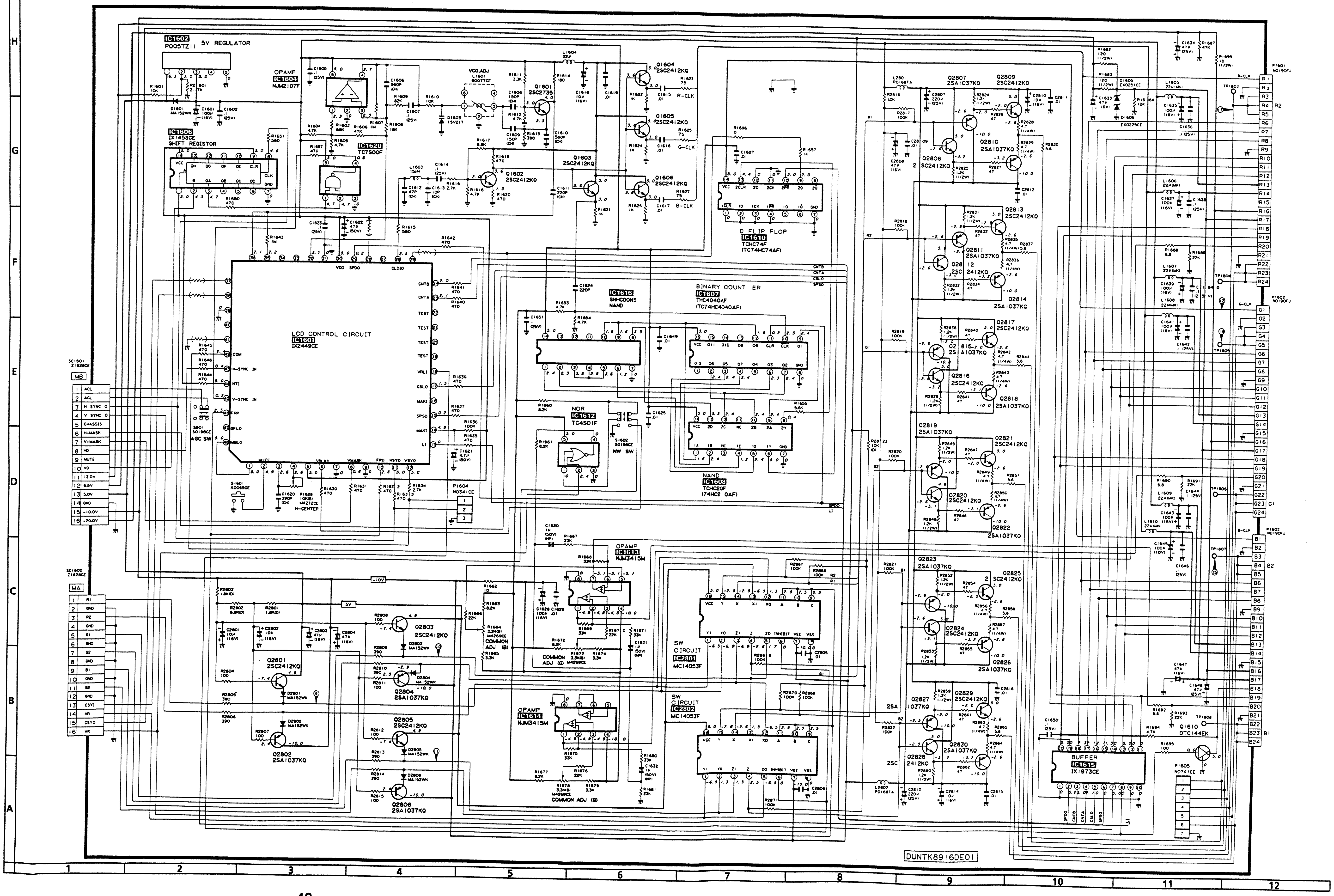
■ MAIN UNIT-2/3


DUNTK8913DE01
IC1201
NJM2060M
IC1202
NJM2904M
Q1201
2SC2412KQ
AGC ADJ
Q1101
FMW1
Q1102
FMW1
Q1103
FMW1
Q1104
FMW1
Q1105
FMW1
Q1106
FMW1
IC1101
LM6361M
OPAMP
IC1102
LM6361M
OPAMP
IC1103
LM6361M
OPAMP
IC1104
LM6361M
OPAMP
IC1105
LM6361M
OPAMP
IC1106
LM6361M
OPAMP
IC1107
NJM2902M
OPAMP
W-BALANCE
W-PEAK ADJ
GAMMA 1 ADJ
GAMMA 2 ADJ
SC1101
Z0519CE
TO MAIN 3
P1901
Z1628CE
IC1801
IR3Y08
INTERFACE
SC1800
Z0519CE
INVERTER
IC1501
SC7S04F
Q1501
2SC2412KQ
IC1503
SW
NJ2233BM
IC1619
TA79010S
OPAMP
IC1502
NJM2904M
Q1502
DTC144EX
Q1503
DTC144EX
L/R SHADE ADJ
Q903
2SA1037KQ
+12V REGULATOR
IC904
IX1843CE
Q902
2SC2412KQ
IC905
P005RF
+5V REGULATOR
-10V REGULATOR
IC906
TA79010S
P1902
Z1628CE
TO MAIN 1
+9V REGULATOR
IC902
TA7809S
+9V REGULATOR
IC903
P009SZ
P901
N074ICE
P902
N044ICE
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

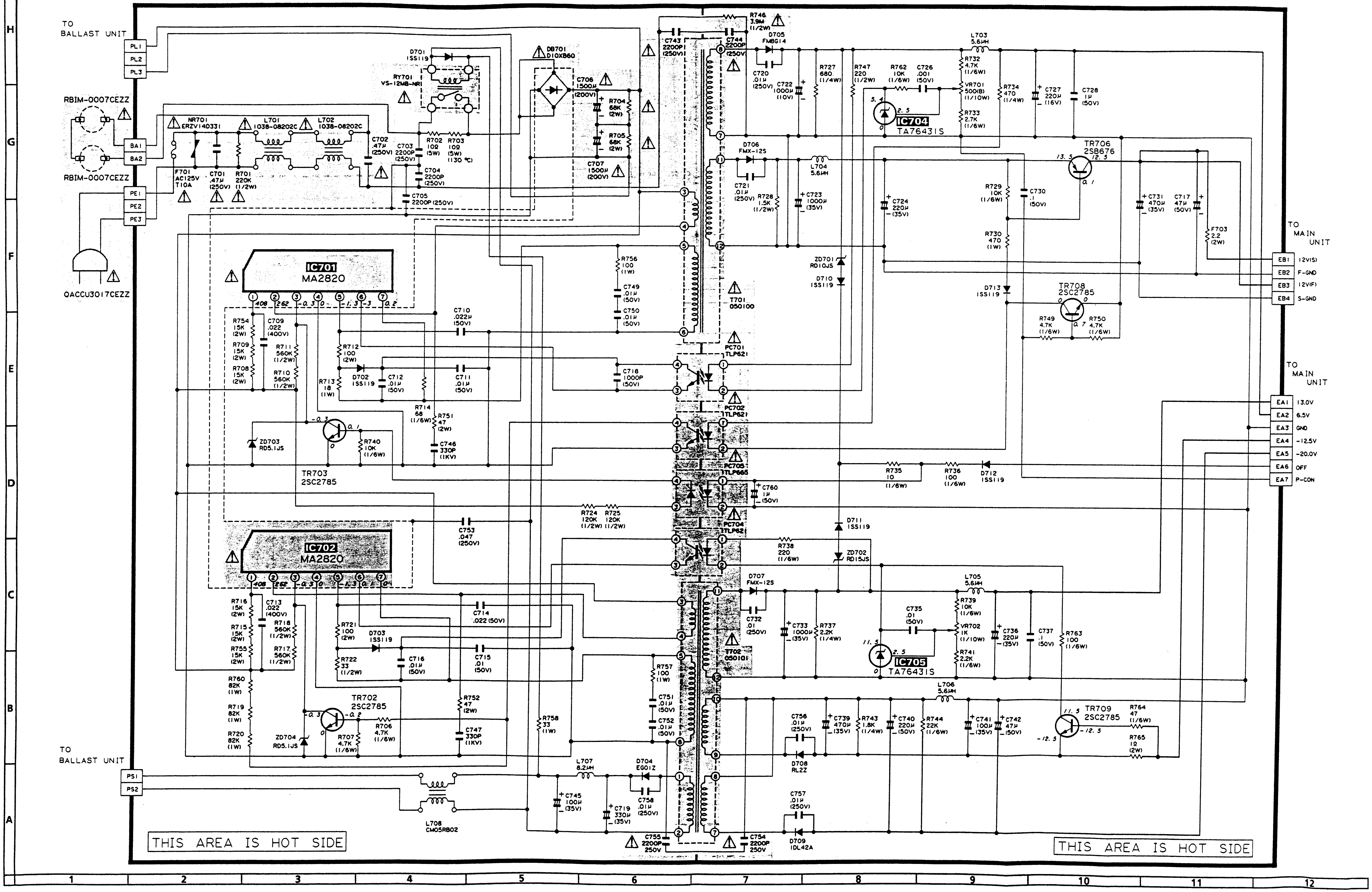
■ MAIN UNIT-3/3 and LED UNIT


IC2001
IX2657CE CONTROL CIRCUIT
IC2002
PST529CM
IC2003
M62352GP
D/ACONTROL
IC2004
M62352GP
D/ACONTROL
IC2005
XL93L46F
E² PROM
IC2006
PQ05TZ
5V REGLATOR
IC2007
LB1831M
MOTOR CONTROL
IC2008
TC HC74F
IC2009
SN HC00NS
IC2501
NJM2904
Q2001
2SC2412KQ
Q2016
DTC144EK
Q2024
2SC2412KQ
Q2017
2SC3198-Y
Q2018
2SC3198-Y
Q2019
2SA1037KQ
Q2021
2SC2412KQ
Q2002
2SC2412KQ
Q2003
2SA1037KQ
Q2004
2SC2412KQ
Q2005
2SC2412KQ
Q2006
2SC2412KQ
Q2007
2SC2412KQ
Q2008
2SC2412KQ
Q2009
DTC144EK
Q2010
DTC144EK
RMC2501
RRMCU0196CEZZ
CALL
S2001
ADJ
S2002
FAN SW
LAMP SW
TEMP
D2501
LAMP
D2502
POWER
D2503
POWER
S2501
TO MAIN 2
TO MAIN 1
P-MUTE
DUNTK8913DE01
DUNTK8915DE01
1
2
3
4
5
6
7
8
9
10
11
12
H
G
F
E
D
C
B
A

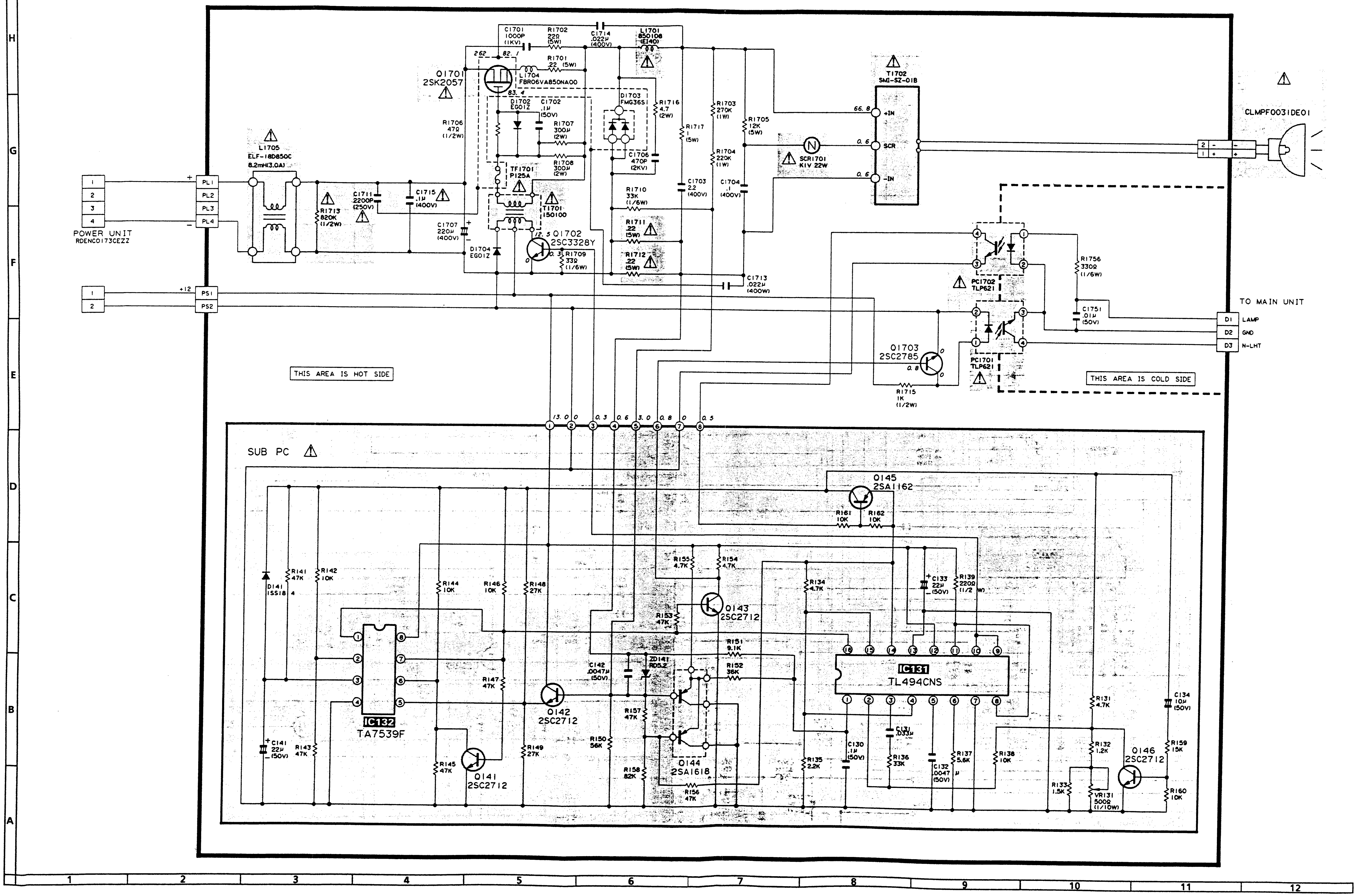
■CONTROL UNIT


IC1602 PQ05TZ11 5V REGULATOR
OPAMP IC1604 NJM2107F
VCO ADJ L1601
IC1606 IX1453CE SHIFT REGISTOR
IC1620 TC7S00F
Q1601 2SC2735
Q1602 2SC2412KQ
Q1603 2SC2412KQ
Q1604 2SC2412KQ
Q1605 2SC2412KQ
Q1606 2SC2412KQ
R-CLK
G-CLK
B-CLK
D FLIP FLOP IC1610 TCHC74F (TC74HC74AF)
LCD CONTROL CIRCUIT IC1601 IX2449CE
IC1616 SNHC00NS NAND
BINARY COUNTER IC1607 THC4040AF (TC74HC4040AF)
NOR IC1612 TC4S01F
S1602 S0198CE NW SW
NAND IC1608 TCHC20F (74HC20AF)
S801 S0198CE AGC SW
S1601 K0065GE
H-CENTER
P1604 N0341CE
SC1601 Z1628CE
MB
1 ACL
2 ACL
3 H SYNC O
4 V SYNC O
5 CHASSIS
6 H-MASK
7 V-MASK
8 HD
9 MUTE
10 VD
11 13.0V
12 6.5V
13 5.0V
14 GND
15 -10.0V
16 -20.0V
SC1602 Z1628CE
MA
1 R1
2 GND
3 R2
4 GND
5 G1
6 GND
7 G2
8 GND
9 B1
10 GND
11 B2
12 GND
13 CSY1
14 HR
15 CSYO
16 VR
OPAMP IC1613 NJM3415M
COMMON ADJ (B)
COMMON ADJ (G)
COMMON ADJ (R)
OPAMP IC1614 NJM3415M
SW CIRCUIT IC2801 MC14053F
SW CIRCUIT IC2802 MC14053F
Q2801 2SC2412KQ
Q2802 2SA1037KQ
Q2803 2SC2412KQ
Q2804 2SA1037KQ
Q2805 2SC2412KQ
Q2806 2SA1037KQ
Q2807 2SA1037KQ
Q2808 2SC2412KQ
Q2809 2SC2412KQ
Q2810 2SA1037KQ
Q2811 2SA1037KQ
Q2812 2SC2412KQ
Q2813 2SC2412KQ
Q2814 2SA1037KQ
Q2815 2SA1037KQ
Q2816 2SC2412KQ
Q2817 2SC2412KQ
Q2818 2SA1037KQ
Q2819 2SA1037KQ
Q2820 2SC2412KQ
Q2821 2SC2412KQ
Q2822 2SA1037KQ
Q2823 2SA1037KQ
Q2824 2SC2412KQ
Q2825 2SC2412KQ
Q2826 2SA1037KQ
Q2827 2SA1037KQ
Q2828 2SC2412KQ
Q2829 2SC2412KQ
Q2830 2SA1037KQ
BUFFER IC1615 IX1973CE
Q1610 DTC144EK
P1605 N0741CE
P1601 N0190FJ
P1602 N0190FJ
P1603 N0190FJ
TP1803
TP1804
TP1805
TP1806
TP1807
TP1808
R1–R24
G1–G24
B1–B24
DUNTK8916DE01
H G F E D C B A
1 2 3 4 5 6 7 8 9 10 11 12

POWER UNIT

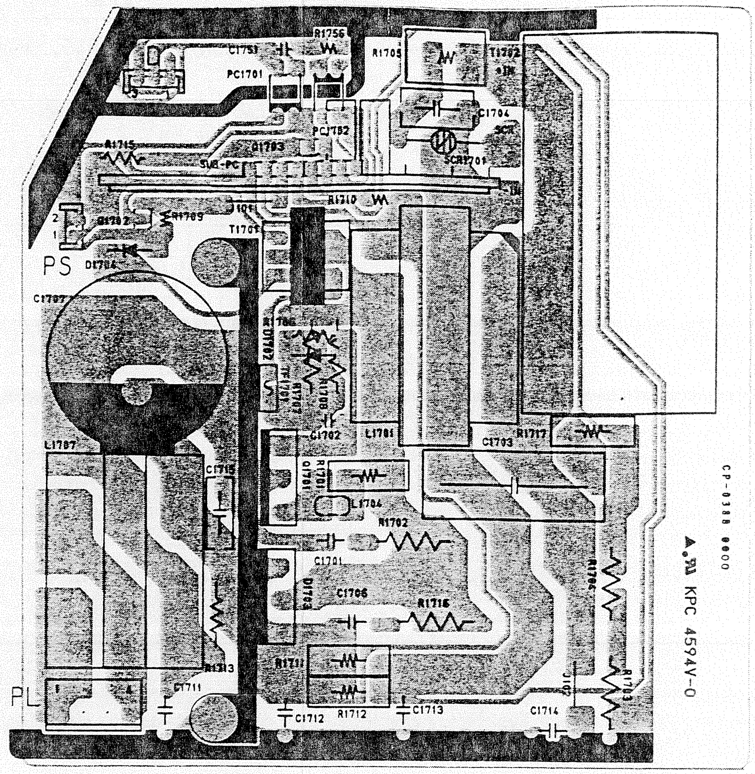

TO BALLAST UNIT
PL1
PL2
PL3
RBIM-0007CEZZ
BA1
BA2
RBIM-0007CEZZ
PE1
PE2
PE3
QACCU3017CEZZ
NR701 ERZV14D331
L701 1038-08202C
L702 1038-08202C
F701 AC125V T10A
C701 .47μ (250V)
R701 220K (1/2W)
C702 .47μ (250V)
C703 2200P (250V)
C704 2200P (250V)
C705 2200P (250V)
D701 1SS119
RY701 VS-12MB-NRI
R702 10Ω (5W)
R703 10Ω (5W) (130 °C)
D8701 D10XB60
C706 1500μ (200V)
C707 1500μ (200V)
R704 68K (2W)
R705 68K (2W)
IC701 MA2820
IC702 MA2820
R754 15K (2W)
R709 15K (2W)
R708 15K (2W)
C709 .022 (400V)
R711 560K (1/2W)
R710 560K (1/2W)
R712 100 (2W)
R713 18 (1W)
D702 1SS119
C712 .01μ (50V)
C710 .022μ (50V)
C711 .01μ (50V)
R714 68 (1/6W)
R751 47 (2W)
C746 330P (1KV)
ZD703 RD5.1JS
TR703 2SC2785
R740 10K (1/6W)
R756 100 (1W)
C749 .01μ (50V)
C750 .01μ (50V)
C718 1000P (50V)
C753 .047 (250V)
R724 120K (1/2W)
R725 120K (1/2W)
R716 15K (2W)
R715 15K (2W)
R755 15K (2W)
C713 .022 (400V)
R718 560K (1/2W)
R717 560K (1/2W)
R721 100 (2W)
D703 1SS119
R722 33 (1/2W)
C716 .01μ (50V)
C714 .022 (50V)
C715 .01 (50V)
R760 82K (1W)
R719 82K (1W)
R720 82K (1W)
ZD704 RD5.1JS
TR702 2SC2785
R707 4.7K (1/6W)
R706 4.7K (1/6W)
R752 47 (2W)
C747 330P (1KV)
R758 33 (1W)
R757 100 (1W)
C751 .01μ (50V)
C752 .01μ (50V)
TO BALLAST UNIT
PS1
PS2
L708 CM05RB02
L707 8.2μH
C745 100μ (35V)
C719 330μ (35V)
D704 EG01Z
C758 .01μ (250V)
C755 2200P 250V
C754 2200P 250V
THIS AREA IS HOT SIDE
C743 2200P (250V)
C744 2200P (250V)
R746 3.9M (1/2W)
D705 FMBG14
C720 .01μ (250V)
C722 1000μ (10V)
R727 680 (1/4W)
R747 220 (1/2W)
R762 10K (1/6W)
C726 .001 (50V)
L703 5.6μH
R732 4.7K (1/6W)
VR701 500(B) (1/10W)
R733 2.7K (1/6W)
R734 470 (1/4W)
C727 220μ (16V)
C728 1μ (50V)
IC704 TA76431S
D706 FMX-12S
L704 5.6μH
C721 .01μ (250V)
R728 1.5K (1/2W)
C723 1000μ (35V)
C724 220μ (35V)
R729 10K (1/6W)
C730 .1 (50V)
R730 470 (1W)
TR706 2SB676
C731 470μ (35V)
C717 47μ (50V)
F703 2.2 (2W)
TO MAIN UNIT
EB1 12V(S)
EB2 F-GND
EB3 12V(F)
EB4 S-GND
ZD701 RD10JS
D710 1SS119
T701 050100
D713 1SS119
TR708 2SC2785
R749 4.7K (1/6W)
R750 4.7K (1/6W)
PC701 TLP621
PC702 TLP621
PC705 TLP665
PC704 TLP621
C760 1μ (50V)
TO MAIN UNIT
EA1 13.0V
EA2 6.5V
EA3 GND
EA4 -12.5V
EA5 -20.0V
EA6 OFF
EA7 P-CON
R735 10 (1/6W)
R736 100 (1/6W)
D712 1SS119
D711 1SS119
R738 220 (1/6W)
ZD702 RD15JS
D707 FMX-12S
C732 .01 (250V)
C733 1000μ (35V)
R737 2.2K (1/4W)
T702 050101
L705 5.6μH
C735 .01 (50V)
R739 10K (1/6W)
VR702 1K (1/10W)
R741 2.2K (1/6W)
IC705 TA76431S
C736 220μ (35V)
C737 .1 (50V)
R763 100 (1/6W)
L706 5.6μH
C756 .01μ (250V)
C739 470μ (35V)
R743 1.8K (1/4W)
C740 220μ (50V)
R744 22K (1/6W)
C741 100μ (35V)
C742 47μ (50V)
TR709 2SC2785
R764 47 (1/6W)
R765 1Ω (2W)
D708 RL2Z
C757 .01μ (250V)
D709 1DL42A
THIS AREA IS HOT SIDE
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

■ BALLAST UNIT

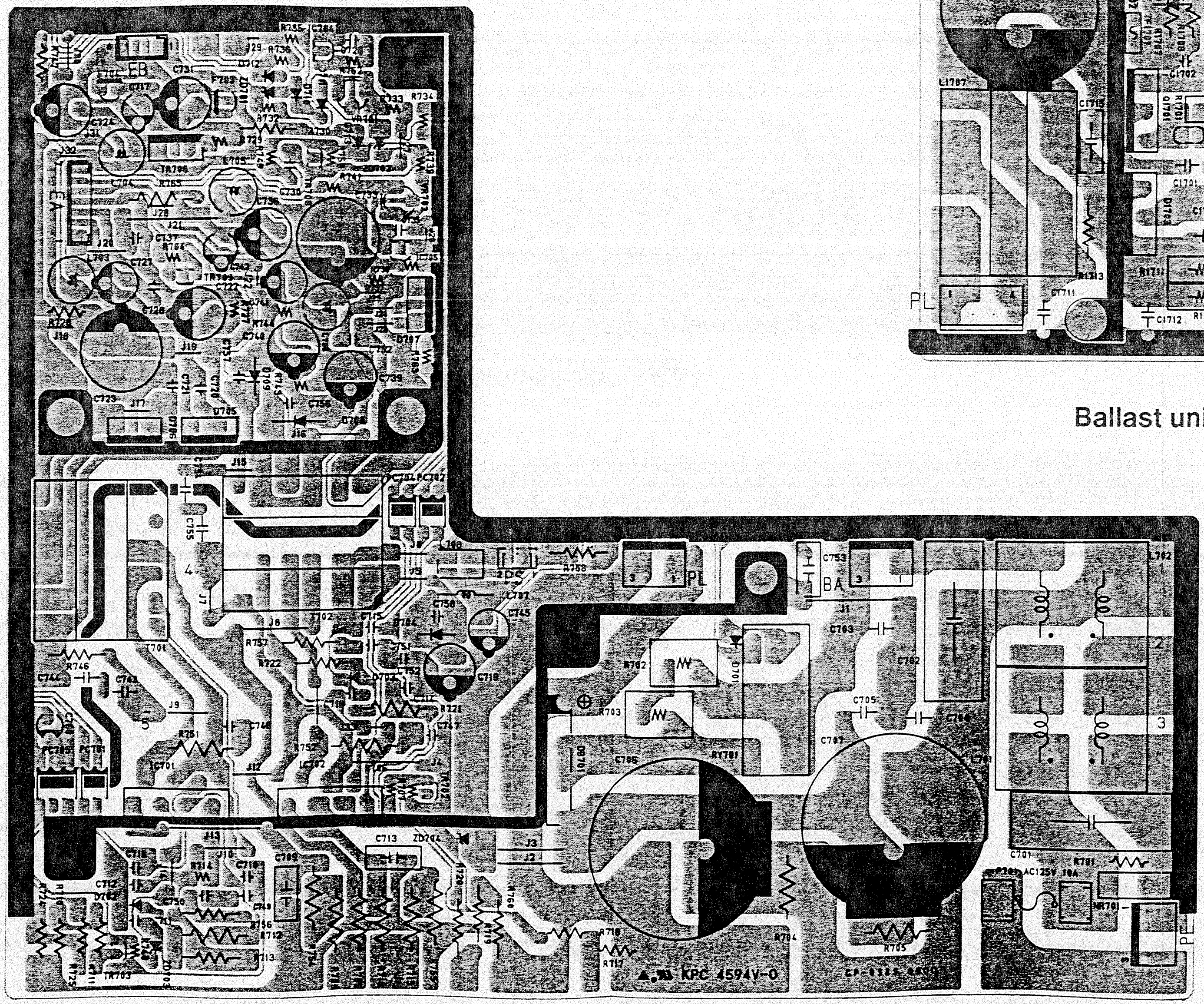


POWER UNIT
RDENC0173CEZZ
PL1
PL2
PL3
PL4
PS1
PS2
+12
L1705
ELF-18D850C
8.2mH(3.0A)
R1713
820K
(1/2W)
C1711
2200P
(250V)
C1715
.1μ
(400V)
C1707
220μ
(400V)
D1704
EG01Z
Q1701
2SK2057
C1701
1000P
(1KV)
R1702
22Ω
(5W)
C1714
.022μ
(400V)
L1701
850108
(E140)
R1701
.22 (5W)
L1704
FBR06VA850NA00
D1702
EG01Z
C1702
.1μ
(50V)
R1706
47Ω
(1/2W)
R1707
300μ
(2W)
R1708
300μ
(2W)
TF1701
P125A
T1701
150100
Q1702
2SC3328Y
R1709
33Ω
(1/6W)
D1703
FMG36S1
C1706
470P
(2KV)
R1716
4.7
(2W)
R1710
33K
(1/6W)
R1711
.22
(5W)
R1712
.22
(5W)
R1717
1
(5W)
C1703
2.2
(400V)
R1703
270K
(1W)
R1704
220K
(1W)
R1705
12K
(5W)
C1704
.1
(400V)
C1713
.022μ
(400W)
SCR1701
K1V 22W
T1702
SMI-SZ-01B
+IN
SCR
-IN
CLMPF0031DE01
PC1702
TLP621
PC1701
TLP621
R1756
330Ω
(1/6W)
C1751
.01μ
(50V)
Q1703
2SC2785
R1715
1K
(1/2W)
TO MAIN UNIT
D1 LAMP
D2 GND
D3 N-LHT
THIS AREA IS HOT SIDE
THIS AREA IS COLD SIDE
SUB PC
Q145
2SA1162
R161
10K
R162
10K
R155
4.7K
R154
4.7K
Q143
2SC2712
R153
47K
R151
9.1K
R152
36K
ZD141
RD5.2
C142
.0047μ
(50V)
R157
47K
R150
56K
R158
82K
Q144
2SA1618
R156
47K
D141
1SS18
R141
47K
R142
10K
R144
10K
R146
10K
R148
27K
R147
47K
IC132
TA7539F
C141
22μ
(50V)
R143
47K
R145
47K
Q141
2SC2712
Q142
2SC2712
R149
27K
R134
4.7K
C133
22μ
(50V)
R139
220Ω
(1/2W)
IC131
TL494CNS
C130
.1μ
(50V)
C131
.033μ
R135
2.2K
R136
33K
C132
.0047μ
(50V)
R137
5.6K
R138
10K
R131
4.7K
R132
1.2K
R133
1.5K
VR131
500Ω
(1/10W)
Q146
2SC2712
C134
10μ
(50V)
R159
15K
R160
10K
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

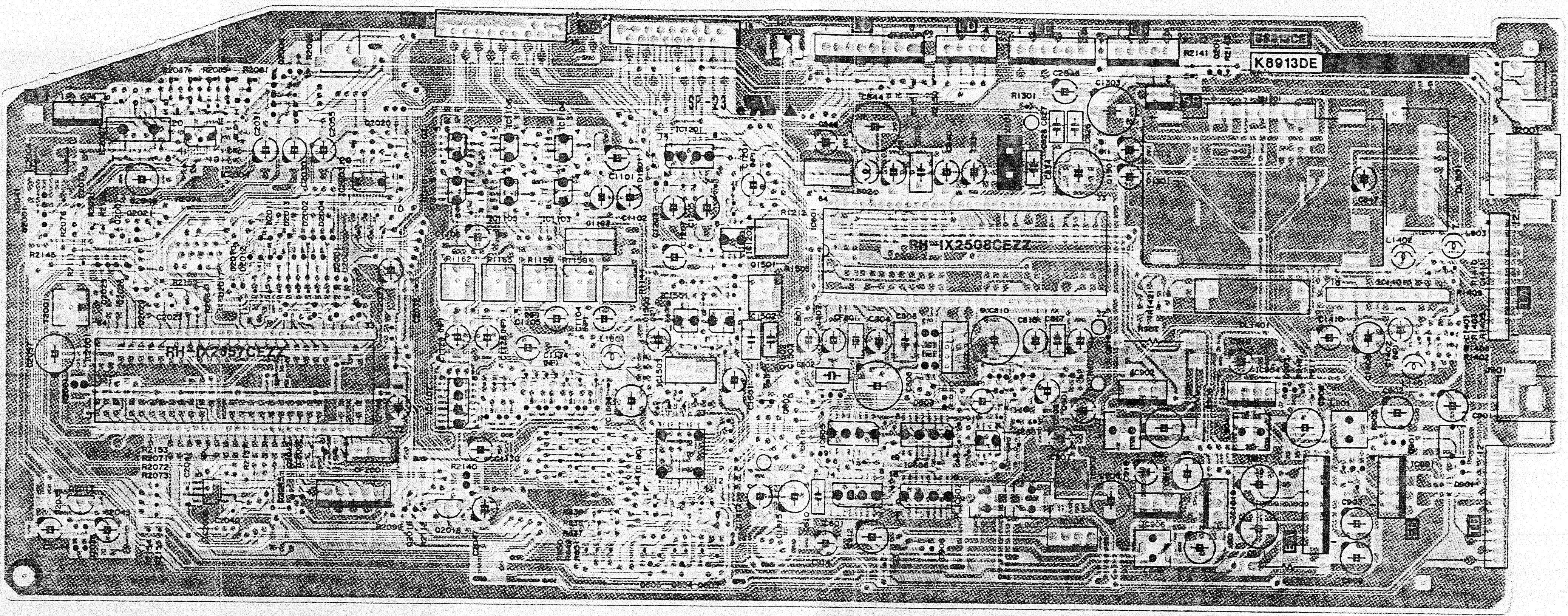
PRINTED WIRING BOARD ASSEMBLIES


PS
PL
KPC 4594V-0

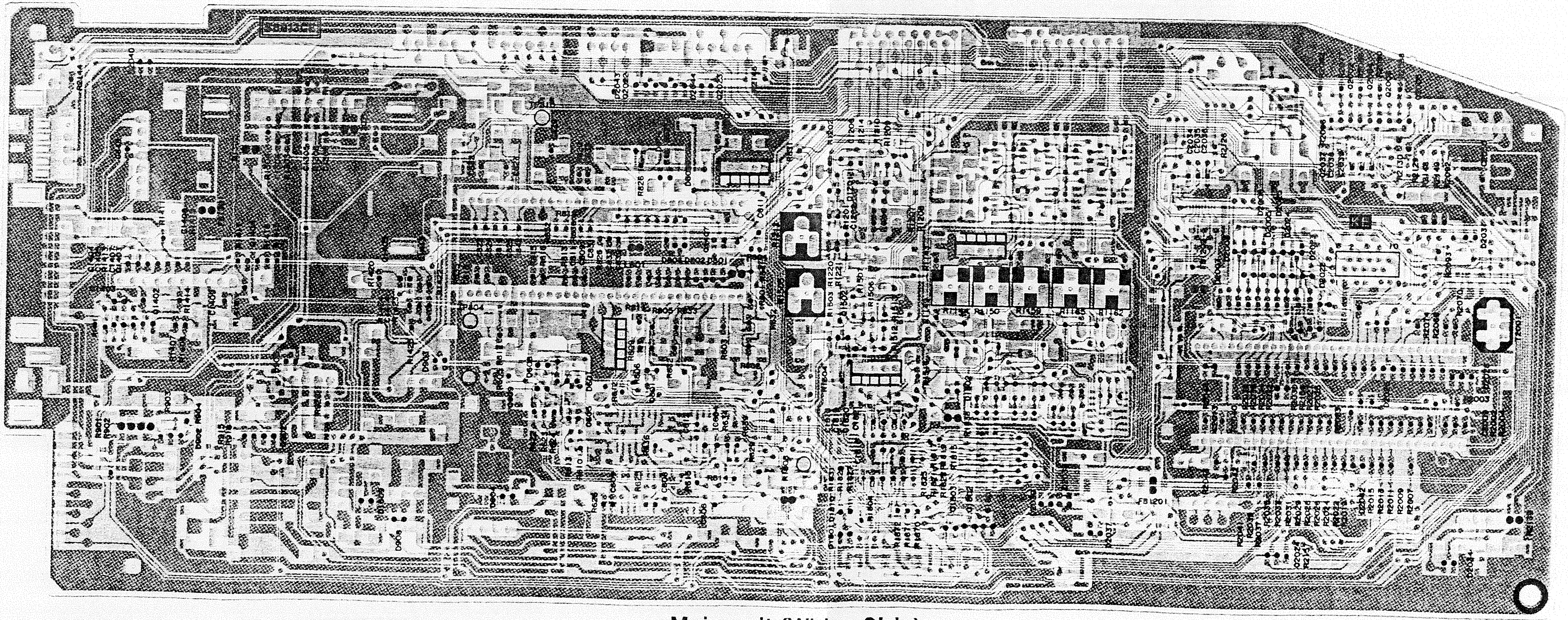
Ballast unit (Wiring Side)


EB
EA
PL
BA
KPC 4594V-0

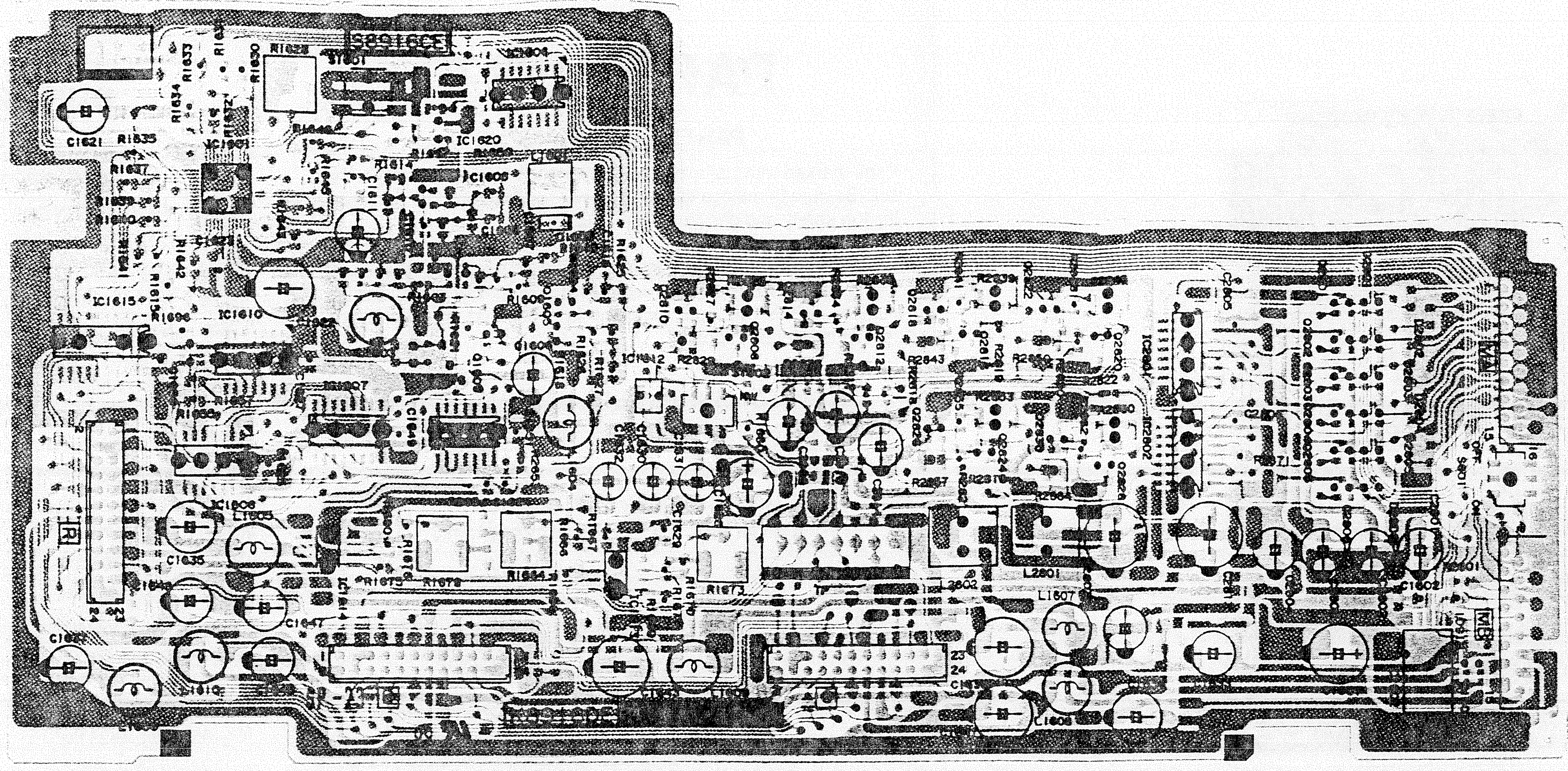
Power unit (Wiring Side)


K8913DE
RH-IX2508CEZZ
RH-IX2557CEZZ

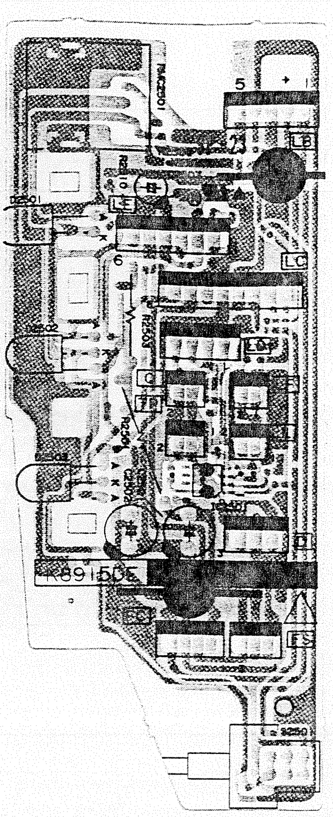
Main unit (Component Side)


H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

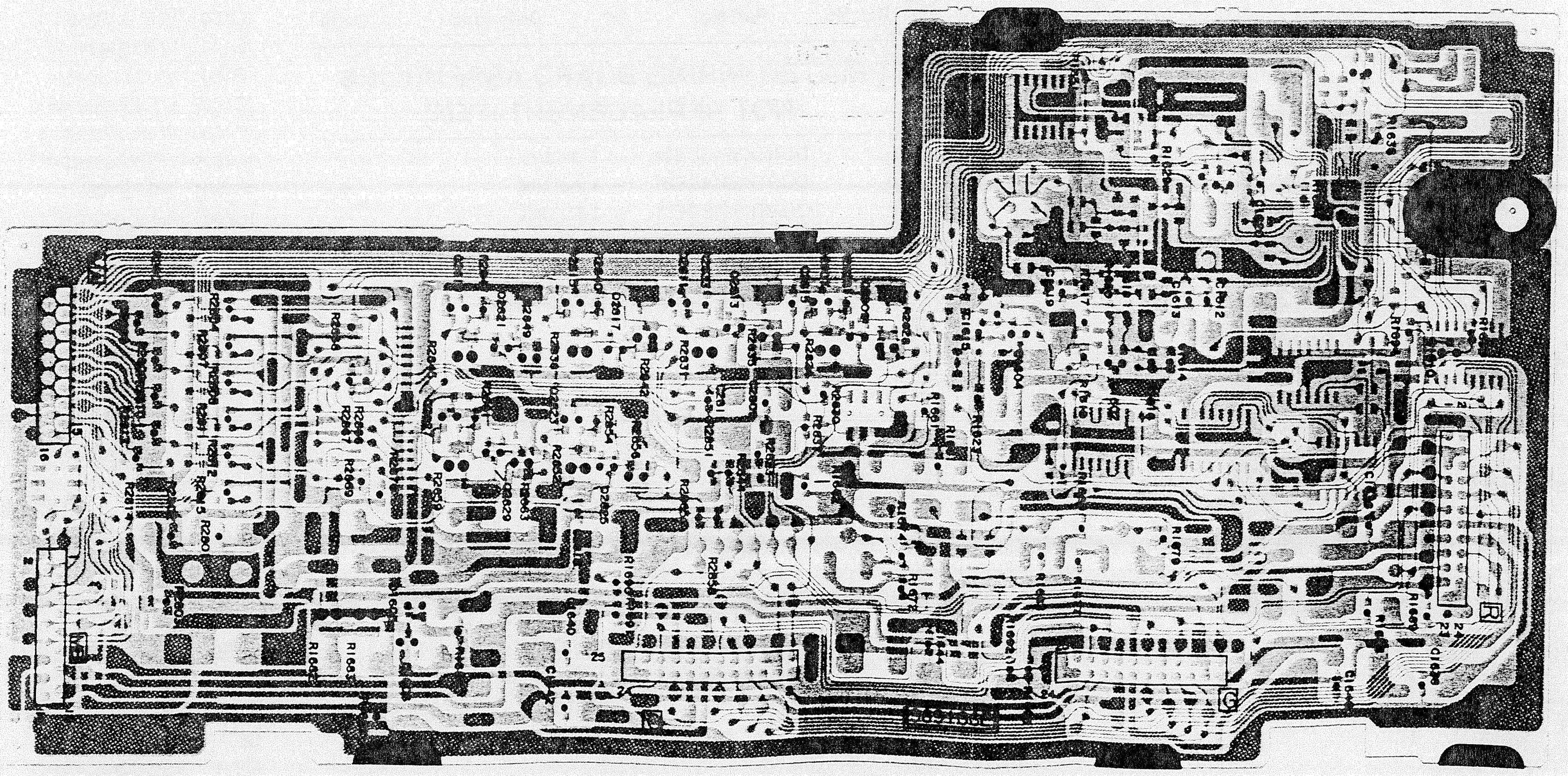
Main unit (Wiring Side)



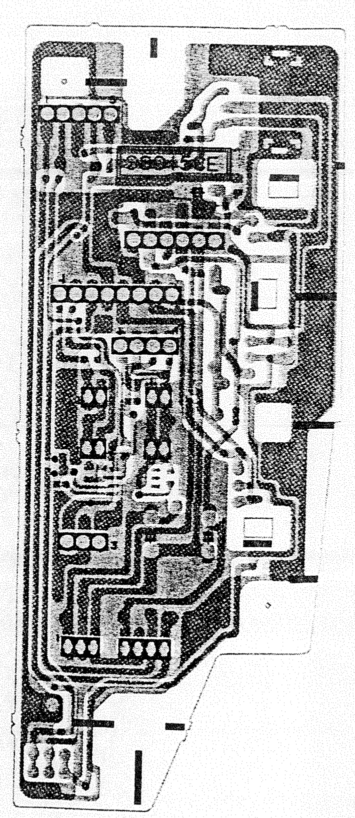
Control unit (Component Side)



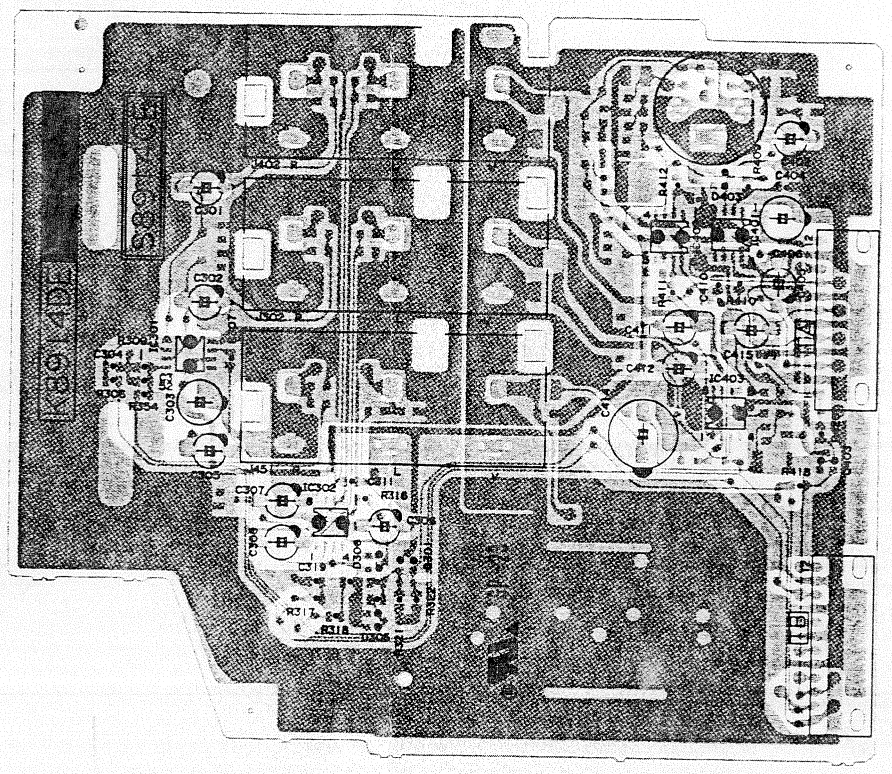
LED unit (Component Side)



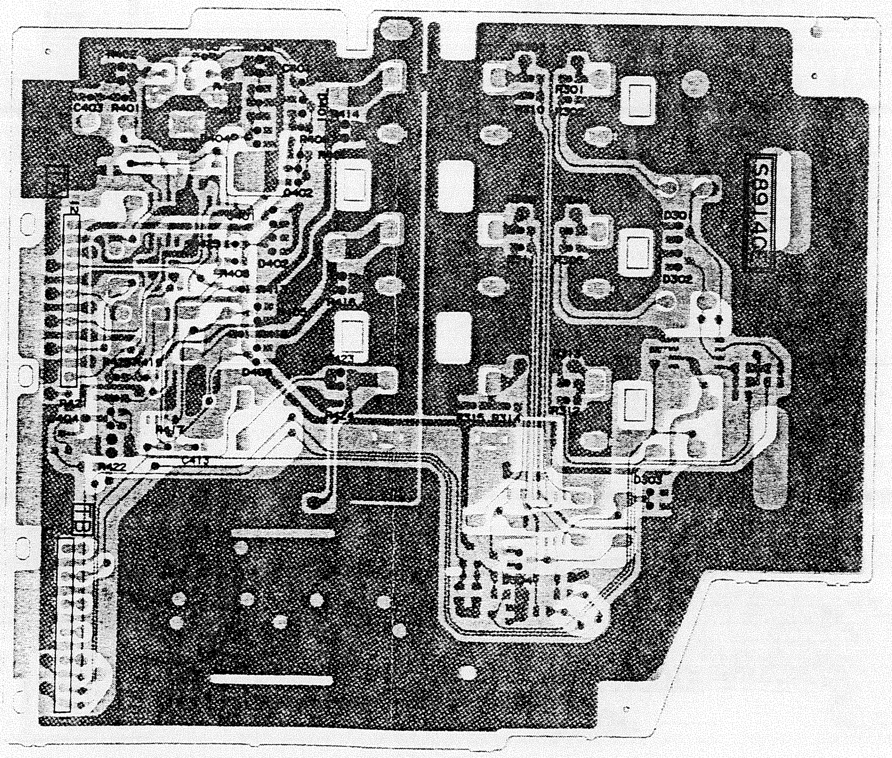
Control unit (Wiring Side)



LED unit (Wiring Side)



Input unit (Component Side)



Input unit (Wiring Side)

PARTS LIST

PARTS REPLACEMENT

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

Les pieces marquées "⚠" sont importantes pour maintenir la sécurité de l'appareil. Ne remplacer ces pieces que par des pieces dont le numéro est spécifié pour maintenir la sécurité et protéger le bon fonctinnement de l'appareil.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

in USA: Contact your nearest SHARP Parts Distributor.
For location of SHARP Parts Distributor,
Please call Toll-Free; 1-800-BE-SHARP

in CANADA: Contact SHARP Electronics of Canada Limited
Phone (416) 890-2100.

MARK ★: SPARE PARTS-DELIVERY SECTION

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

Ref. No.	Part No.	★	Description	Code
	DUNTK8913DE01		– Main Unit	—
	DUNTK8914DE01		– Input Unit	—
	DUNTK8915DE01		– LED Unit	—
	DUNTK8916DE01		– Control Unit	—
	RDENC0173CEZZ		– Power Unit	—
	RDENC0174CEZZ		– Ballast Unit	—

ASSEMBLY UNITS

Ref. No.	Part No.	★	Description	Code
	RLCDP0022CEZZ	J	LCD Module Unit (Red or Green)	DB
	RLCDP0023CEZZ	J	LCD Module Unit (Blue)	DB

DUNTK8913DE01
MAIN UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC601	VHiSNHC00NS-1	J	SN74HC00NS	AC
IC602	VHiTHC221AF-1	J	TC74HC221AF	AG
IC604	VHiTC4S01F/-1	J	TC4S01F	AC
IC605	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC606	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC607	VHiBA7046F/-1	J	BA7046F	AF
IC801	RH-iX2508CEN2	J	TA8880CN	AZ
IC901	RH-iX2204CEZZ	J	PQ12TZ11	AG
IC902	VHiTA7809S/-1	J	TA7809S	AE
IC903	VHiPQ09SZ11-1	J	PQ09SZ1U	AG
IC904	RH-iX1843CEZZ	J	PQ12RF1	AF
IC905	VHiPQ05RF11-1	J	PQ05RF11	AF
IC906	VHiTA79010S-1	J	TA79010S	AE
IC1101	VHiLM6361M/-1	J	LM6361M	AR
IC1102	VHiLM6361M/-1	J	LM6361M	AR
IC1103	VHiLM6361M/-1	J	LM6361M	AR
IC1104	VHiLM6361M/-1	J	LM6361M	AR
IC1105	VHiLM6361M/-1	J	LM6361M	AR
IC1106	VHiLM6361M/-1	J	LM6361M	AR
IC1107	VHiNJM2902M-1	J	NJM2902M	AF
IC1201	VHiNJM2060M-1	J	NJM2060M	AE
IC1202	VHiNJM2904M-1	J	NJM2904M	AE
IC1301	VHiTDA7056A-1	J	TDA7056A	AP
IC1401	VHiM51494L/-1	J	M51494L	AK
IC1501	VHiSC7S04F/-1	J	SC7S04F	AC
IC1502	VHiNJM2904M-1	J	NJM2904M	AE
IC1503	VHiNJ2233BM-1	J	NJM2233BM	AE
IC1619	VHiTA79010S-1	J	TA79010S	AE
IC1801	VHiiR3Y08//-1	J	iR3Y08	AS
IC2001	RH-iX2657CEZZ	J	M37204MC-C77SP	BR
IC2002	VHiPST529CM-1	J	PST529CMT	AE
IC2003	VHiM62352GP-1	J	M62352GP	AQ
IC2004	VHiM62352GP-1	J	M62352GP	AQ
IC2005	VHiXL93L46F-1	J	XLJ93LC46F	AG
IC2006	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC2007	VHiLB1831M/-1	J	LB1831M	AN
IC2008	VHiTCHC74F/-1	J	TCHC74F	AE
IC2009	VHiSNHC00S-1	J	SN74HC00NS	AC

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q601	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q602	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q603	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q604	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q608	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q609	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q610	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q611	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q801	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q802	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q803	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q804	VS2SA1037KQ-1	J	2SA1037KQ	AA

DUNTK8913DE01
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
Q805	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q901	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q902	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q903	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1101	VSFMW1/////-1	J	FMW1	AB
Q1102	VSFMW1/////-1	J	FMW1	AB
Q1103	VSFMW1/////-1	J	FMW1	AB
Q1104	VSFMW1/////-1	J	FMW1	AB
Q1105	VSFMW1/////-1	J	FMW1	AB
Q1106	VSFMW1/////-1	J	FMW1	AB
Q1201	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1301	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1401	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1402	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1403	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1404	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1405	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1407	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1501	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1502	VSDTC144EK/-1	J	DTC144EK	AB
Q1503	VSDTC144EK/-1	J	DTC144EK	AB
Q1801	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1802	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1803	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2001	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2002	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2003	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2004	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2005	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2006	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2007	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2008	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2009	VSDTC144EK/-1	J	DTC144EK	AB
Q2010	VSDTC144EK/-1	J	DTC144EK	AB
Q2016	VSDTC144EK/-1	J	DTC144EK	AB
Q2017	VS2SC3198-Y-1	J	2SC3198-Y	AA
Q2018	VS2SC3198-Y-1	J	2SC3198-Y	AA
Q2019	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2021	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2024	VS2SC2412KQ-1	J	2SC2412KQ	AA

DIODES

Ref. No.	Part No.	★	Description	Code
D601	VHDMA152WK/-1	J	Diode MA152WK	AA
D801	RH-EX0497CEZZ	J	Zener Diode 3.3V	AC
D802	RH-EX0539CEZZ	J	Zener Diode 9.1V	AB
D803	VHDMA152WK/-1	J	Diode MA152WK	AA
D804	VHDMA152WK/-1	J	Diode MA152WK	AA
D805	VHDMA153///-1	J	Diode MA153	AB
D806	VHDMA152WK/-1	J	Diode MA152WK	AA
D901	VHDMA152WK/-1	J	Diode MA152WK	AA
D902	VHDMA152WK/-1	J	Diode MA152WK	AA
D903	VHDMA152WK/-1	J	Diode MA152WK	AA
D904	VHDMA152WK/-1	J	Diode MA152WK	AA
D905	VHDMA152WK/-1	J	Diode MA152WK	AA
D906	VHDMA152WK/-1	J	Diode MA152WK	AA
D907	VHDMA152WK/-1	J	Diode MA152WK	AA
D908	VHDMA152WK/-1	J	Diode MA152WK	AA
D1201	VHDMA153///-1	J	Diode MA153	AB
D1609	VHDMA152WK/-1	J	Diode MA152WK	AA
D1801	VHDMA152WK/-1	J	Diode MA152WK	AA
D1802	VHDMA153///-1	J	Diode MA153	AB
D1810	VHDMA152WK/-1	J	Diode MA152WK	AA
D2001	VHDMA152WK/-1	J	Diode MA152WK	AA
D2002	VHDMA152WK/-1	J	Diode MA152WK	AA
D2003	VHDMA152WK/-1	J	Diode MA152WK	AA
D2005	VHDMA153///-1	J	Diode MA153	AB
D2006	VHDMA153///-1	J	Diode MA153	AB
D2007	VHDMA153///-1	J	Diode MA153	AB
D2008	VHDMA153///-1	J	Diode MA153	AB
D2009	VHDMA152WK/-1	J	Diode MA152WK	AA
D2010	VHDMA152WK/-1	J	Diode MA152WK	AA
D2011	VHDMA152WK/-1	J	Diode MA152WK	AA
D2012	VHDMA152WK/-1	J	Diode MA152WK	AA
D2013	VHDMA152WK/-1	J	Diode MA152WK	AA
D2017	VHDMA152WK/-1	J	Diode MA152WK	AA
D2022	VHDMA153///-1	J	Diode MA153	AB
D2023	VHDMA153///-1	J	Diode MA153	AB
D2024	VHDMA153///-1	J	Diode MA153	AB
D2025	VHDMA153///-1	J	Diode MA153	AB
D2026	RH-EX0226CEZZ	J	Zener Diode	AB
D2028	RH-EX0227CEZZ	J	Zener Diode 5.1V	AB
D2029	VHDMA152WK/-1	J	Diode MA152WK	AA
D2030	VHDMA152WK/-1	J	Diode MA152WK	AA
D2031	RH-EX0516CEZZ	J	Zener Diode	AB
D2032	RH-EX0540CEZZ	J	Zener Diode	AB
D2034	VHDMA152WK/-1	J	Diode MA152WK	AA
D2035	RH-EX0516CEZZ	J	Zener Diode	AB
D2036	VHDMA152WK/-1	J	Diode MA152WK	AA
D2037	VHDMA152WK/-1	J	Diode MA152WK	AA
D2038	RH-EX0516CEZZ	J	Zener Diode	AB
D2039	VHDMA152WK/-1	J	Diode MA152WK	AA
D2040	RH-EX0226CEZZ	J	Zener Diode	AB
D2041	VHDMA152WK/-1	J	Diode MA152WK	AA
D2045	RH-EX0251CEZZ	J	Zener Diode	AB
D2053	VHDMA153///-1	J	Diode MA153	AB
D2054	VHDMA153///-1	J	Diode MA153	AB
D2055	VHDMA153///-1	J	Diode MA153	AB
D2056	VHDMA153///-1	J	Diode MA153	AB
D2057	VHDMA152WK/-1	J	Diode MA152WK	AA
D2058	VHDMA152WK/-1	J	Diode MA152WK	AA
D2059	VHD1SS119//-1	J	Diode 1SS119	AB
D2060	VHD1SS119//-1	J	Diode 1SS119	AB

PACKAGED CIRCUIT

Ref. No.	Part No.	★	Description	Code
X801	RCRSB0069CEZZ	J	Crystal 3.58MHz	AG

COIL AND TRANSFORMERS

Ref. No.	Part No.	★	Description	Code
CF2001	RFiLC0112GEZZ	J	Filter	AC
CF801	RFiLA0034CEZZ	J	Filter	AD

DUNTK8913DE01
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
DL801	RCiLZ0861CEZZ	J	Coil, Delay Line	AT
DL1401	RCiLZ0899CEZZ	J	Coil, Delay Line	AN
L801	VP-1M270J3R8N	J	Peaking 27µH	AC
L802	VP-MK220K0000	J	Peaking 22µH	AB
L803	VP-MK3R3K0000	J	Peaking 3.3µH	AB
L901	RCiLP0168TAZZ	J	Coil	AF
L902	RCiLP0168TAZZ	J	Coil	AF
L903	RCiLP0168TAZZ	J	Coil	AF
L904	RCiLP0168TAZZ	J	Coil	AF
L905	RCiLP0168TAZZ	J	Coil	AF
L906	RCiLP0168TAZZ	J	Coil	AF
L1401	VP-MK680K0000	J	Peaking 68µH	AB
L1402	VP-MK560K0000	J	Peaking 56µH	AB
L1801	VP-MK5R6K0000	J	Peaking 5.6µH	AB
L1804	VP-1M8R2J1R5N	J	Peaking 8.2µH	AC
T2001	RCiLB0024CEZZ	J	Oscillation Coil	AD

CONTROLS

Ref. No.	Part No.	★	Description	Code
R1144	RVR-M4276CEZZ	J	47k(B) Gamma 1	AC
R1150	RVR-M4276CEZZ	J	47k(B) Gamma 2	AC
R1505	RVR-M4276CEZZ	J	47k(B) L/R Shade	AC
R1159	RVR-M4272CEZZ	J	10k(B) W-Balance (B)	AC
R1162	RVR-M4272CEZZ	J	10k(B) W-Balance (R)	AC
R1165	RVR-M4272CEZZ	J	10k(B) W-Peak	AC
R1212	RVR-M4277CEZZ	J	68k(B) AGC	AD

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C601	VCKYTQ1CB105K	J	1 16V Ceramic	AC
C602	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C603	VCE9GA1CW226M	J	22 16V Elect. (N.P)	AB
C605	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C606	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C607	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C608	VCCCTV1HH221J	J	220p 50V Ceramic	AA
C609	VCCCTV1HH821J	J	820p 50V Ceramic	AB
C610	VCQYTA1HM183J	J	0.018 50V Mylar	AB
C611	VCKYTQ1HF224Z	J	0.22 50V Ceramic	AB
C612	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C613	VCCCTV1HH102J	J	1000p 50V Ceramic	AA
C614	VCCCTV1HH102J	J	1000p 50V Ceramic	AA
C615	VCCCTV1HH561J	J	560p 50V Ceramic	AA
C616	VCCCTV1HH102J	J	1000p 50V Ceramic	AA
C619	VCCCTV1HH102J	J	1000p 50V Ceramic	AA
C620	VCKYTV1HB223K	J	0.022 50V Ceramic	AB
C621	VCKYTQ1CB105K	J	1 16V Ceramic	AC
C801	VCEAGA1HW105M	J	1 50V Electrolytic	AC
C802	VCQYTA1HM153J	J	0.015 50V Mylar	AA
C803	VCEAGA1HW105M	J	1 50V Electrolytic	AC
C804	VCEAGA1HW105M	J	1 50V Electrolytic	AC
C805	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C806	VCEAGA1CW477M	J	470 16V Electrolytic	AC
C807	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C808	VCQYTA1HM103J	J	0.01 50V Mylar	AA
C809	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C810	VCEAGA1CW477M	J	470 16V Electrolytic	AC
C811	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C815	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C816	VCEAGA1HW225M	J	2.2 50V Electrolytic	AB
C817	VCQYTA1HM103J	J	0.01 50V Mylar	AA
C818	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C822	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C823	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C824	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C825	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C826	VCQYTA1HM103J	J	0.01 50V Mylar	AA
C827	VCQYTA1HM103J	J	0.01 50V Mylar	AA
C828	VCQYTA1HM223J	J	0.022 50V Mylar	AA
C829	VCCCTV1HH100D	J	10p 50V Ceramic	AA
C831	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C832	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C833	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C834	VCEAGA1CW477M	J	470 16V Electrolytic	AC
C835	VCQYTA1HM104J	J	0.1 50V Mylar	AA
C836	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C837	VCCCTV1HH470J	J	47p 50V Ceramic	AA
C838	VCEAGA1HW105M	J	1 50V Electrolytic	AC
C839	VCCCTV1HH270J	J	27p 50V Ceramic	AA
C840	VCEAGA1HW105M	J	1 50V Electrolytic	AC
C841	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C842	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C843	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C844	VCEAGA1CW477M	J	470 16V Electrolytic	AC
C845	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C846	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C847	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C848	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C850	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C851	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C852	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C901	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C902	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C903	VCEAGA1EW107M	J	100 25V Electrolytic	AD
C904	VCEAGA1CW227M	J	220 16V Electrolytic	AC
C905	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C906	VCEAGA1CW227M	J	220 16V Electrolytic	AC
C907	VCEAGA1AW476M	J	47 10V Electrolytic	AA
C908	VCEAGA1EW227M	J	220 25V Electrolytic	AC
C909	VCEAGA1EW107M	J	100 25V Electrolytic	AD
C910	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C911	VCEAGA1CW227M	J	220 16V Electrolytic	AC
C912	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C913	VCEAGA1EW227M	J	220 25V Electrolytic	AC
C914	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C915	VCEAGA1EW107M	J	100 25V Electrolytic	AD
C916	VCEAGA1HW105M	J	1 50V Electrolytic	AC
C1101	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C1102	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C1103	VCEAGA1EW226M	J	22 25V Electrolytic	AA
C1106	VCEAGA1CW106M	J	10 16V Electrolytic	AA

DUNTK8913DE01
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C1107	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1108	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1109	VCCCTV1HH820J	J	82p	50V	Ceramic	AA
C1110	VCCCTV1HH5R0C	J	5p	50V	Ceramic	AA
C1111	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1112	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1113	VCCCTV1HH5R0C	J	5p	50V	Ceramic	AA
C1114	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1115	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1116	VCCCTV1HH820J	J	82p	50V	Ceramic	AA
C1117	VCCCTV1HH5R0C	J	5p	50V	Ceramic	AA
C1118	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1119	VCCCTV1HH5R0C	J	5p	50V	Ceramic	AA
C1120	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1121	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1122	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1123	VCCCTV1HH820J	J	82p	50V	Ceramic	AA
C1124	VCCCTV1HH5R0C	J	5p	50V	Ceramic	AA
C1125	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1126	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1127	VCCCTV1HH5R0C	J	5p	50V	Ceramic	AA
C1128	VCE9GA1CW106M	J	10	16V	Elect. (N.P)	AB
C1129	VCE9GA1CW106M	J	10	16V	Elect. (N.P)	AB
C1130	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C1131	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1132	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1133	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1135	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1137	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C1201	VCE9GA1HW105M	J	1	50V	Elect. (N.P)	AB
C1202	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C1203	VCEAGA1HW225M	J	2.2	50V	Electrolytic	AB
C1204	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1205	VCEAGA1HW225M	J	2.2	50V	Electrolytic	AB
C1206	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1207	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C1301	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C1302	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C1303	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C1304	VCCCTV1HH471J	J	470p	50V	Ceramic	AA
C1305	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1306	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1401	VCCCTV1HH560J	J	56p	50V	Ceramic	AA
C1402	VCE9GA1CW106M	J	10	16V	Elect. (N.P)	AB
C1403	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C1404	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1405	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1406	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1407	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1408	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1409	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1410	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C1411	VCCCTV1HH820J	J	82p	50V	Ceramic	AA
C1413	VCCCTV1HH151J	J	150p	50V	Ceramic	AA
C1414	VCCCTV1HH151J	J	150p	50V	Ceramic	AA
C1501	VCEAGA1CW226M	J	22	16V	Electrolytic	AB
C1502	VCQYTA1HM563J	J	0.056	50V	Mylar	AB
C1503	VCQYTA1HM223J	J	0.022	50V	Mylar	AA
C1504	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1505	VCE9GA1EW106M	J	10	25V	Elect. (N.P)	AB
C1506	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1653	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1801	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1802	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1803	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1804	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1805	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1806	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1807	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1808	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1809	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1810	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1811	VCCCTV1HH151J	J	150p	50V	Ceramic	AA
C1812	VCKYTV1HB682K	J	6800p	50V	Ceramic	AA
C1813	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1814	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1815	VCEAGA1EW107M	J	100	25V	Electrolytic	AD
C1816	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1817	VCEAGA1AW107M	J	100	10V	Electrolytic	AB
C1818	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1819	VCQYTA1HM104J	J	0.1	50V	Mylar	AA
C1820	VCQYTA1HM104J	J	0.1	50V	Mylar	AA
C1821	VCQYTA1HM104J	J	0.1	50V	Mylar	AA
C1822	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1823	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1824	VCKYTV1HB682K	J	6800p	50V	Ceramic	AA
C1825	VCKYTV1HB682K	J	6800p	50V	Ceramic	AA
C1826	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1827	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1828	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1829	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1830	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1831	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1832	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2001	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2002	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2003	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2004	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2005	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2006	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2007	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2008	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2009	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2010	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2011	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2012	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2013	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2014	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2015	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA

DUNTK8913DE01
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
C2016	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2017	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2018	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2019	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2020	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2021	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2022	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2023	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2024	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2025	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2026	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2027	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2028	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2029	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2030	VCEAGA1CW226M	J	22 16V Electrolytic	AB
C2031	VCEAGA1CW226M	J	22 16V Electrolytic	AB
C2032	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2033	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C2034	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2035	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2036	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2037	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2038	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2039	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2040	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2041	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2044	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C2045	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C2046	VCEAGA1AW477M	J	470 10V Electrolytic	AC
C2047	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C2048	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C2049	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C2050	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2051	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2052	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2053	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2054	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2055	VCEAGA1CW226M	J	22 16V Electrolytic	AB
C2056	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2057	VCEAGA0JW477M	J	470 6.3V Electrolytic	AB
C2058	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2059	VCKYTV1HB103K	J	0.01 50V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R601	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R602	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R603	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R604	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R605	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R606	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R607	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R608	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R609	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R610	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R611	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R612	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R620	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R621	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R622	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R623	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R624	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R625	VRN-TV1JD223D	J	22k 1/10W Metal Film	AB
R626	VRN-TV1JD473D	J	47k 1/10W Metal Film	AB
R627	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R628	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R629	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R630	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R631	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R632	VRS-TV1JD394J	J	390k 1/10W Metal Oxide	AA
R633	VRN-TV1JD682D	J	6.8k 1/10W Metal Film	AA
R634	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R635	VRN-TV1JD103D	J	10k 1/10W Metal Film	AB
R636	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R637	VRN-TV1JD183D	J	18k 1/10W Metal Film	AA
R638	VRN-TV1JD103D	J	10k 1/10W Metal Film	AB
R639	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R801	VRS-TV1JD395J	J	3.9M 1/10W Metal Oxide	AA
R802	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R803	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R804	VRS-TX2HF101J	J	100 1/2W Metal Oxide	AA
R805	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R806	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R807	VRS-TX2HF270J	J	27 1/2W Metal Oxide	AB
R808	VRS-TX2HF270J	J	27 1/2W Metal Oxide	AB
R809	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R810	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R811	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R812	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R813	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R815	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R816	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R817	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R818	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R819	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R820	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R825	VRS-TV1JD821J	J	820 1/10W Metal Oxide	AA
R826	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R827	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R828	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R829	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R830	VRS-TV1JD224J	J	220k 1/10W Metal Oxide	AA
R831	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R832	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R833	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R834	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R835	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R836	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R837	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R838	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA

DUNTK8913DE01
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R839	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R840	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R841	VRS-TV1JD824J	J	820k 1/10W Metal Oxide	AA
R842	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R843	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R844	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R845	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R846	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R847	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R848	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R849	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R850	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R851	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R852	VRS-TV1JD185J	J	1.8M 1/10W Metal Oxide	AA
R901	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R902	VRS-TX2HF6R8J	J	6.8 1/2W Metal Oxide	AA
R903	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R905	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R906	VRG-RF2HB2R2J	J	2.2 1/2W Fuse Resistor	AB
R907	VRS-SV3AB560J	J	56 1W Metal Oxide	AD
R911	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R915	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R916	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R917	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R918	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R919	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R920	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R923	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R926	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R928	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1101	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R1102	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R1103	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R1104	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1105	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1106	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1107	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1108	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1109	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1110	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1111	VRN-TV1JD392D	J	3.9k 1/10W Metal Film	AA
R1112	VRN-TV1JD102D	J	1k 1/10W Metal Film	AA
R1113	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1114	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R1115	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R1116	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R1117	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1118	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1119	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1120	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1121	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1122	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1123	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1124	VRN-TV1JD392D	J	3.9k 1/10W Metal Film	AA
R1125	VRN-TV1JD102D	J	1k 1/10W Metal Film	AA
R1126	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1127	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R1128	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R1129	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R1130	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1131	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1132	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1133	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1134	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1135	VRN-TV1JD392D	J	3.9k 1/10W Metal Film	AA
R1136	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1137	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1138	VRN-TV1JD102D	J	1k 1/10W Metal Film	AA
R1139	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1140	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R1141	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R1142	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R1143	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R1144	*See Controls*			
R1145	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R1149	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R1150	*See Controls*			
R1151	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R1155	VRN-TV1JD272D	J	2.7k 1/10W Metal Film	AA
R1156	VRN-TV1JD272D	J	2.7k 1/10W Metal Film	AA
R1157	VRN-TV1JD272D	J	2.7k 1/10W Metal Film	AA
R1158	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1159	*See Controls*			
R1160	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1161	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1162	*See Controls*			
R1163	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1164	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1165	*See Controls*			
R1166	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1167	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1168	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1169	VRS-TV1JD330J	J	33 1/10W Metal Oxide	AA
R1170	VRS-TV1JD330J	J	33 1/10W Metal Oxide	AA
R1171	VRS-TV1JD330J	J	33 1/10W Metal Oxide	AA
R1172	VRS-TV1JD330J	J	33 1/10W Metal Oxide	AA
R1173	VRS-TV1JD330J	J	33 1/10W Metal Oxide	AA
R1174	VRS-TV1JD330J	J	33 1/10W Metal Oxide	AA
R1201	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1202	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1203	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1204	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1205	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1206	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1207	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1208	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1209	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1210	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1211	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA

DUNTK8913DE01
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R1212	*See Controls*			
R1213	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1214	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1215	VRS-TV1JD393J	J	39k 1/10W Metal Oxide	AA
R1216	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1217	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA
R1218	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R1219	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1222	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1301	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R1302	VRS-TX2HF1R0J	J	1 1/2W Metal Oxide	AA
R1303	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1305	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1306	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1307	VRS-TX2HF8R2J	J	8.2 1/2W Metal Oxide	AA
R1308	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R1309	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R1401	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1402	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1403	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R1404	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1405	VRS-TV1JD182J	J	1.8k 1/10W Metal Oxide	AA
R1406	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R1407	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1408	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R1409	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R1410	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R1411	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1412	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R1413	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R1414	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1415	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R1416	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1417	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1418	VRS-TV1JD821J	J	820 1/10W Metal Oxide	AA
R1419	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R1420	VRS-TV1JD821J	J	820 1/10W Metal Oxide	AA
R1421	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R1422	VRS-TV1JD100J	J	10 1/10W Metal Oxide	AA
R1423	VRS-TV1JD271J	J	270 1/10W Metal Oxide	AA
R1424	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R1425	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R1428	VRS-TV1JD681J	J	680 1/10W Metal Oxide	AA
R1501	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1502	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R1503	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R1504	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1505	*See Controls*			
R1506	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1507	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1508	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1509	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA
R1510	VRS-TV1JD823J	J	82k 1/10W Metal Oxide	AA
R1511	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1512	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R1513	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1514	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R1801	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R1802	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R1803	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R1804	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1805	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R1806	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R1807	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R1809	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1810	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1811	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1812	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1813	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1814	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1815	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1816	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1817	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1818	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1819	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1820	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R1821	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1822	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1823	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1824	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1825	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1826	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1827	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1828	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1829	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1830	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1831	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1832	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R1838	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R1870	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1871	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1872	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1876	VRS-TV1JD564J	J	560k 1/10W Metal Oxide	AA
R2001	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R2002	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R2003	VRN-TV1JD123D	J	12k 1/10W Metal Film	AA
R2004	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R2006	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2007	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2008	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2010	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2011	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2012	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2013	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2014	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2015	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2016	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2018	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R2019	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA

DUNTK8913DE01
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R2020	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R2021	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2022	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2023	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2024	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2025	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2026	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2027	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2028	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2029	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2030	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2031	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2032	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2033	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2034	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2036	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2038	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2040	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2042	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2043	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R2044	VRS-TV1JD105J	J	1M 1/10W Metal Oxide	AA
R2045	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2046	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2047	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2048	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2049	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2050	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2051	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2052	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2053	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2054	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2055	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2056	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2057	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2058	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2059	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2060	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2063	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2064	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2065	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R2066	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2069	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2070	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2071	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R2072	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R2073	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R2074	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2075	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2076	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R2077	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2078	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2079	VRS-TV1JD563J	J	56k 1/10W Metal Oxide	AA
R2080	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R2081	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2082	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2085	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2086	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2087	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2088	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2089	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2090	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2091	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2092	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2093	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2094	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2095	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2096	VRS-TV1JD563J	J	56k 1/10W Metal Oxide	AA
R2097	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2098	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R2099	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2112	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2113	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R2114	VRN-TV1JD272D	J	2.7k 1/10W Metal Film	AA
R2115	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R2116	VRD-RA2BE333J	J	33k 1/8W Carbon	AA
R2117	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2118	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R2119	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R2120	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R2121	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R2124	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2125	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2126	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2127	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2128	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2129	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2130	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2131	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2132	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2133	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2134	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2135	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2136	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2137	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2139	VRS-TX2HF681J	J	680 1/2W Metal Oxide	AA
R2140	VRS-TX2HF681J	J	680 1/2W Metal Oxide	AA
R2141	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2142	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2143	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2144	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2145	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2146	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2147	VRS-TV1JD824J	J	820k 1/10W Metal Oxide	AA
R2148	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2149	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2153	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R2154	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R2155	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R2156	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA

DUNTK8913DE01

MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R2157	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R2158	VRS-TV1JD821J	J	820 1/10W Metal Oxide	AA
R2159	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R2160	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R2161	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R2162	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R2163	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R2164	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA

SWITCHES

Ref. No.	Part No.	★	Description	Code
S2001	QSW-K0076CEZZ	J	Call	AB
S2002	QSW-K0076CEZZ	J	Adjust	AB

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
FB1201	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB1202	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB1301	RBLN-0060CEZZ	J	Ferrite Bead	AC
J901	QJAKE0008TAZZ	J	Jack, DC 12V Output	AE
J2001	QJAKJ0044CEZZ	J	Jack, Wired R/C Input	AF
P801	QPLGZ1268GEZZ	J	Plug 12-pin (TB)	AD
P802	QPLGZ1268GEZZ	J	Plug 12-pin (TA)	AD
P901	QPLGN0741CEZZ	J	Plug 7-pin (EA)	AC
P902	QPLGN0441CEZZ	J	Plug 4-pin (EB)	AB
P1301	QPLGN0278GEZZ	J	Plug 2-pin (S)	AA
P1901	QPLGZ1628CEZZ	J	Plug 16-pin (MB)	AF
P1902	QPLGZ1628CEZZ	J	Plug 16-pin (MA)	AF
P2002	QPLGN0841CEZZ	J	Plug 8-pin (LC)	AB
P2003	QPLGN0478GEZZ	J	Plug 4-pin (AZ)	AB
P2004	QPLGN0641CEZZ	J	Plug 6-pin (LE)	AB
P2006	QPLGN0541CEZZ	J	Plug 5-pin (LB)	AB
P2007	QPLGN0441CEZZ	J	Plug 4-pin (LD)	AB
SC800	QSOCZ0519CEZZ	J	Socket 5-pin	AC
SC1101	QSOCZ0519CEZZ	J	Socket 5-pin	AC
SC1400	QSOCZ0519CEZZ	J	Socket 5-pin	AC
SC1800	QSOCZ0519CEZZ	J	Socket 5-pin	AC
SC2001	QSOCN0079FJZZ	J	Socket 10-pin (KE)	AE
SC2002	QSOCZ6434GEZZ	J	Socket 64-pin, for IC2001	AG
TP3	QPLGN0264TAZZ	J	Plug 2-pin, Test Point	AC
TP810	QLUGP0101CEFW	J	Lug, Test Point	AA
	LHLDZ1768CEZZ	J	Jack Holder	AC

DUNTK8914DE01

INPUT UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC301	VHiNJM2245M-1	J	NJM2245M	AF
IC302	VHiNJM2245M-1	J	NJM2245M	AF
IC401	VHiNJM2245M-1	J	NJM2245M	AF
IC402	VHiNJM2245M-1	J	NJM2245M	AF
IC403	VHiNJM2245M-1	J	NJM2245M	AF

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q301	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q401	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q402	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q403	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q404	VS2SC2412KQ-1	J	2SC2412KQ	AA

DIODES

Ref. No.	Part No.	★	Description	Code
D301	RH-EX0226CEZZ	J	Zener Diode	AB
D302	RH-EX0226CEZZ	J	Zener Diode	AB
D303	RH-EX0226CEZZ	J	Zener Diode	AB
D304	RH-EX0226CEZZ	J	Zener Diode	AB
D305	RH-EX0226CEZZ	J	Zener Diode	AB
D306	RH-EX0226CEZZ	J	Zener Diode	AB
D401	VHDMA153///-1	J	Diode MA153	AB
D402	RH-EX0226CEZZ	J	Zener Diode	AB
D403	RH-EX0226CEZZ	J	Zener Diode	AB
D404	RH-EX0226CEZZ	J	Zener Diode	AB
D405	RH-EX0226CEZZ	J	Zener Diode	AB
D406	RH-EX0226CEZZ	J	Zener Diode	AB

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C301	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C302	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C303	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C304	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C305	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C306	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C307	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C308	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C309	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C310	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C311	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C352	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C401	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C402	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C403	VCCCTV1HH390J	J	39p 50V Ceramic	AA
C404	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C405	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C406	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C407	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C408	VCCCTV1HH680J	J	68p 50V Ceramic	AA
C409	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C410	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C411	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C412	VCEAGA1CW106M	J	10 16V Electrolytic	AA

DUNTK8914DE01
INPUT UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
C413	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C414	VCEAGA1CW477M	J	470 16V Electrolytic	AC
C415	VCE9GA1CW476M	J	47 16V Elect. (N.P)	AB
C416	VCE9GA1CW106M	J	10 16V Elect. (N.P)	AB
C417	VCKYTV1HB103K	J	0.01 50V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R301	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R302	VRS-TV1JD563J	J	56k 1/10W Metal Oxide	AA
R303	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R304	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R305	VRS-TV1JD563J	J	56k 1/10W Metal Oxide	AA
R306	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R307	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R308	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R310	VRS-TV1JD563J	J	56k 1/10W Metal Oxide	AA
R311	VRS-TV1JD563J	J	56k 1/10W Metal Oxide	AA
R312	VRS-TV1JD681J	J	680 1/10W Metal Oxide	AA
R313	VRS-TV1JD105J	J	1M 1/10W Metal Oxide	AA
R314	VRS-TV1JD681J	J	680 1/10W Metal Oxide	AA
R315	VRS-TV1JD105J	J	1M 1/10W Metal Oxide	AA
R316	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R317	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R318	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R319	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R320	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R321	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R322	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R354	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R401	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R402	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R403	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R404	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R405	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R406	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R407	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R408	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R409	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R410	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R411	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R412	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R413	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R414	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R415	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R416	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R417	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R418	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R419	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R420	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R421	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R422	VRS-TX2HF331J	J	330 1/2W Metal Oxide	AB
R423	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R424	VRS-TV1JD105J	J	1M 1/10W Metal Oxide	AA
R425	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R426	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R427	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R428	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R429	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
J302	QJAKG0017CEZZ	J	Jack, Composite Video Input 2	AF
J401	QSOCD0435CEZZ	J	Socket, S-Video Input 1	AF
J402	QJAKG0017CEZZ	J	Jack, Composite Video Input 1	AF
J403	QJAKG0017CEZZ	J	Jack, Composite Video Output	AF
SC401	QSOCZ1269GEZZ	J	Socket 12-pin (TB)	AD
SC402	QSOCZ1269GEZZ	J	Socket 12-pin (TA)	AD

DUNTK8915DE01
LED UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUIT				
IC2501	VHiNJM2904M-1	J	NJM2904M	AE
DIODES				
D2501	RH-PX0175CEZZ	J	LED, Temp Ind.	AB
D2502	RH-PX0287CEZZ	J	LED, Lamp Ind.	AC
D2503	RH-PX0287CEZZ	J	LED, Power Ind.	AC
CAPACITORS				
C2501	VCEAGA1CW227M	J	220 16V Electrolytic	AC
C2502	VCEAGA1CW227M	J	220 16V Electrolytic	AC
C2503	VCEAGA0JW107M	J	100 6.3V Electrolytic	AB
C2504	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2505	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2506	VCE9GA1AW107M	J	100 10V Elect. (N.P)	AB
RESISTORS				
R2501	VRS-VV3LB100J	J	10 3W Metal Oxide	AB
R2503	VRN-RV3AB1R0J	J	1 1W Metal Film	AB
R2509	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2510	VRS-TV1JD220J	J	22 1/10W Metal Oxide	AA
R2511	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R2512	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R2513	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA
R2514	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA
R2515	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R2516	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2517	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2518	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2519	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
MISCELLANEOUS PARTS				
P2501	QPLGN0278GEZZ	J	Plug 2-pin (LF)	AA
P2502	QPLGN0278GEZZ	J	Plug 2-pin (LL)	AA
P2503	QPLGN0378GEZZ	J	Plug 3-pin (FS)	AB
P2504	QPLGN0478GEZZ	J	Plug 4-pin (FC)	AB
P2505	QPLGN0341CEZZ	J	Plug 3-pin (D)	AA
P2506	QPLGN0278GEZZ	J	Plug 2-pin (Q)	AA
P2507	QPLGN0278GEZZ	J	Plug 2-pin	AA
P2508	QPLGN0441CEZZ	J	Plug 4-pin (LD)	AB
P2509	QPLGN0641CEZZ	J	Plug 6-pin (LE)	AB
P2510	QPLGN0541CEZZ	J	Plug 5-pin (LB)	AB
P2511	QPLGN0841CEZZ	J	Plug 8-pin (LC)	AB
RMC2501	RRMCU0196CEZZ	J	R/C Receiver	AM
S2501	QSW-P0565CEZZ	J	Power Switch	AE
	QCNW-4417CEZZ	J	Connecting Cord	AD
	LHLDZ1766CEZZ	J	LED Holder	AB

DUNTK8916DE01
CONTROL UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
IC1601	RH-iX2449CEZZ	J	LZ93BE6	AP
IC1602	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC1604	VHiNJM2107F-1	J	NJM2107F	AE
IC1606	RH-iX1453CEZZ	J	TC74HC164AF	AF
IC1607	VHiTHC4040AF1	J	TC74HC4040AF	AH
IC1608	VHiTCHC20F/-1	J	TC74HC20AF	AD
IC1610	VHiTCHC74F/-1	J	TC74HC74F	AE
IC1612	VHiTC4S01F/-1	J	TC4S01F	AC
IC1613	VHiNJM3415M-1	J	NJM3415M	AT
IC1614	VHiNJM3415M-1	J	NJM3415M	AT
IC1615	RH-iX1973CEZZ	J	SN74HC541NS	AG
IC1616	VHiSNHC00NS-1	J	SN74HC00NS	AC
IC1620	VHiTC7S00F/-1	J	TC7S00F	AC
IC2801	VHiMC14053F-1	J	MC14053BFR1	AD
IC2802	VHiMC14053F-1	J	MC14053BFR1	AD
TRANSISTORS				
Q1601	VS2SC2735//1E	J	2SC2735	AC
Q1602	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1603	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1604	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1605	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1606	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1610	VSDTC144EK/-1	J	DTC144EK	AB
Q2801	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2802	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2803	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2804	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2805	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2806	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2807	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2808	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2809	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2810	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2811	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2812	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2813	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2814	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2815	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2816	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2817	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2818	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2819	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2820	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2821	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2822	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2823	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2824	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2825	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2826	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2827	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2828	VS2SC2412KQ-1	J	2SC2412KQ	AA

DUNTK8916DE01
CONTROL UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
Q2829	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2830	VS2SA1037KQ-1	J	2SA1037KQ	AA

DIODES

Ref. No.	Part No.	★	Description	Code
D1601	VHDMA152WK/-1	J	Diode MA152WK	AA
D1603	VHD1SV217//-1	J	Diode 1SV217	AB
D1605	RH-EX0251CEZZ	J	Zener Diode	AB
D1606	RH-EX0225CEZZ	J	Zener Diode	AB
D2801	VHDMA152WK/-1	J	Diode MA152WK	AA
D2802	VHDMA152WK/-1	J	Diode MA152WK	AA
D2803	VHDMA152WK/-1	J	Diode MA152WK	AA
D2804	VHDMA152WK/-1	J	Diode MA152WK	AA
D2805	VHDMA152WK/-1	J	Diode MA152WK	AA
D2806	VHDMA152WK/-1	J	Diode MA152WK	AA

COIL

Ref. No.	Part No.	★	Description	Code
L1601	RCiLB0077CEZZ	J	Osc. Coil, VCO Adj.	AL
L1603	VP-MK150K0000	J	Peaking 15μH	AB
L1604	VP-MK220K0000	J	Peaking 22μH	AB
L1605	VP-MK220K0000	J	Peaking 22μH	AB
L1606	VP-MK220K0000	J	Peaking 22μH	AB
L1607	VP-MK220K0000	J	Peaking 22μH	AB
L1608	VP-MK220K0000	J	Peaking 22μH	AB
L1609	VP-MK220K0000	J	Peaking 22μH	AB
L1610	VP-MK220K0000	J	Peaking 22μH	AB
L2801	RCiLP0168TAZZ	J	Coil	AF
L2802	RCiLP0168TAZZ	J	Coil	AF

CONTROLS

Ref. No.	Part No.	★	Description	Code
R1628	RVR-M4272CEZZ	J	10k(B) Horizontal Center	AC
R1664	RVR-M4269CEZZ	J	3.3k(B) Common Adj. (B)	AC
R1673	RVR-M4269CEZZ	J	3.3k(B) Common Adj. (G)	AC
R1678	RVR-M4269CEZZ	J	3.3k(B) Common Adj. (R)	AC

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C1601	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C1602	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1605	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1606	VCCCTV1HH561J	J	560p 50V Ceramic	AA
C1607	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1608	VCCCTV1HH151J	J	150p 50V Ceramic	AA
C1609	VCCCTV1HH151J	J	150p 50V Ceramic	AA
C1610	VCCCTV1HH561J	J	560p 50V Ceramic	AA
C1611	VCCCTV1HH221J	J	220p 50V Ceramic	AA
C1612	VCCCTV1HH470J	J	47p 50V Ceramic	AA
C1613	VCCCTV1HH100D	J	10p 50V Ceramic	AA
C1614	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1615	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1616	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1617	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1618	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C1619	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1620	VCCCTV1HH391J	J	390p 50V Ceramic	AA
C1621	VCEAGA1HW475M	J	4.7 50V Electrolytic	AB
C1622	VCEAGA1HW476M	J	47 50V Electrolytic	AB
C1623	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1624	VCCCTV1HH221J	J	220p 50V Ceramic	AA
C1625	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1627	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1628	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C1629	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1630	VCE9GA1HW105M	J	1 50V Elect. (N.P)	AB
C1631	VCE9GA1HW105M	J	1 50V Elect. (N.P)	AB
C1632	VCE9GA1HW105M	J	1 50V Elect. (N.P)	AB
C1633	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C1634	VCEAGA1EW476M	J	47 25V Electrolytic	AB
C1635	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C1636	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1637	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C1638	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1639	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C1640	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1641	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C1642	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1643	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C1644	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1645	VCEAGA1AW107M	J	100 10V Electrolytic	AB
C1646	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1647	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C1648	VCEAGA1EW476M	J	47 25V Electrolytic	AB
C1649	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1650	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1651	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2801	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C2802	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C2803	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C2804	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C2805	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2806	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2807	VCEAGA1EW227M	J	220 25V Electrolytic	AC
C2808	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C2809	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2810	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C2811	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2812	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2813	VCEAGA1EW227M	J	220 25V Electrolytic	AC
C2814	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C2815	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2816	VCKYTV1HB103K	J	0.01 50V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R1601	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1603	VRS-TV1JD683J	J	68k 1/10W Metal Oxide	AA
R1604	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1605	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1606	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R1607	VRS-TV1JD105J	J	1M 1/10W Metal Oxide	AA
R1608	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R1609	VRS-TV1JD823J	J	82k 1/10W Metal Oxide	AA

DUNTK8916DE01
CONTROL UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R1610	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1611	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R1612	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1613	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R1614	VRS-TV1JD181J	J	180 1/10W Metal Oxide	AA
R1615	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R1616	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R1617	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R1618	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1619	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1620	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1621	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1622	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1623	VRS-TV1JD750J	J	75 1/10W Metal Oxide	AA
R1624	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1625	VRS-TV1JD750J	J	75 1/10W Metal Oxide	AA
R1626	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1627	VRS-TV1JD750J	J	75 1/10W Metal Oxide	AA
R1628	*See Controls*			
R1630	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1631	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1632	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1633	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1634	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R1635	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1636	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1637	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1639	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1640	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1641	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1642	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1643	VRS-TV1JD105J	J	1M 1/10W Metal Oxide	AA
R1644	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1645	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1646	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1650	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1651	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R1653	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1654	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1655	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R1657	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1660	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1661	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1662	VRS-TV1JD100J	J	10 1/10W Metal Oxide	AA
R1663	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1664	*See Controls*			
R1665	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R1666	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1667	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1668	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1669	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1670	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1671	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R1672	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1673	*See Controls*			
R1674	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R1675	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1676	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1677	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1678	*See Controls*			
R1679	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R1680	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1681	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1682	VRS-TX2HF121J	J	120 1/2W Metal Oxide	AB
R1683	VRS-TX2HF121J	J	120 1/2W Metal Oxide	AB
R1684	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R1687	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R1688	VRS-TV1JD6R8J	J	6.8 1/10W Metal Oxide	AA
R1689	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1690	VRS-TV1JD6R8J	J	6.8 1/10W Metal Oxide	AA
R1691	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1692	VRS-TV1JD6R8J	J	6.8 1/10W Metal Oxide	AA
R1693	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1694	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1695	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1696	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R1697	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1699	VRS-TX2HF100J	J	10 1/2W Metal Oxide	AA
R2601	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R2801	VRN-TV1JD182D	J	1.8k 1/10W Metal Film	AA
R2802	VRN-TV1JD682D	J	6.8k 1/10W Metal Film	AA
R2803	VRN-TV1JD182D	J	1.8k 1/10W Metal Film	AA
R2804	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2805	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2806	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2807	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2808	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2809	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2810	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2811	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2812	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2813	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2814	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2815	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2816	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2817	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2818	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2819	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2820	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2821	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2822	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2823	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2824	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2825	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2826	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2827	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2828	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2829	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2830	VRS-TV1JD5R6J	J	5.6 1/10W Metal Oxide	AA

DUNTK8916DE01
CONTROL UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R2831	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2832	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2833	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2834	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2835	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2836	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2837	VRS-TV1JD5R6J	J	5.6 1/10W Metal Oxide	AA
R2838	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2839	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2840	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2841	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2842	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2843	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2844	VRS-TV1JD5R6J	J	5.6 1/10W Metal Oxide	AA
R2845	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2846	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2847	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2848	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2849	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2850	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2851	VRS-TV1JD5R6J	J	5.6 1/10W Metal Oxide	AA
R2852	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2853	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2854	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2855	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2856	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2857	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2858	VRS-TV1JD5R6J	J	5.6 1/10W Metal Oxide	AA
R2859	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2860	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2861	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2862	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2863	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2864	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2865	VRS-TV1JD5R6J	J	5.6 1/10W Metal Oxide	AA
R2866	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2867	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2868	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2869	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2870	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2871	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA

SWITCHES

Ref. No.	Part No.	★	Description	Code
S801	QSW-S0198CEZZ	J	AGC	AF
S1601	QSW-K0065GEZZ	J	Mute	AC
S1602	QSW-S0198CEZZ	J	NW	AF

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
P1601	QPLGN0190FJZZ	J	Plug 24-pin (R)	AG
P1602	QPLGN0190FJZZ	J	Plug 24-pin (G)	AG
P1603	QPLGN0190FJZZ	J	Plug 24-pin (B)	AG
P1604	QPLGN0341CEZZ	J	Plug 3-pin	AA
P1605	QPLGN0741CEZZ	J	Plug 7-pin	AC
SC1601	QSOCZ1628CEZZ	J	Socket 16-pin (MB)	AF
SC1602	QSOCZ1628CEZZ	J	Socket 16-pin (MA)	AF
TP1803	QLUGP0110TAFW	J	Lug, Test Point	AA
TP1804	QLUGP0110TAFW	J	Lug, Test Point	AA
TP1805	QLUGP0110TAFW	J	Lug, Test Point	AA
TP1806	QLUGP0110TAFW	J	Lug, Test Point	AA
TP1807	QLUGP0110TAFW	J	Lug, Test Point	AA
TP1808	QLUGP0110TAFW	J	Lug, Test Point	AA

RDENC0173CEZZ
POWER UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
⚠ IC701	9FJ0F09010030	J	MA2820	AU
⚠ IC702	9FJ0F09010030	J	MA2820	AU
IC704	9FJ0F01110285	J	TA76431S	AG
IC705	9FJ0F01110285	J	TA76431S	AG

TRANSISTORS

TR702	9FJ0Q02001071	J	2SC2785	AD
TR703	9FJ0Q02001071	J	2SC2785	AD
TR706	9FJ0Q01001000	J	2SB676	AH
TR708	9FJ0Q02001071	J	2SC2785	AD
TR709	9FJ0Q02001071	J	2SC2785	AD

DIODES

D701	9FJ0D00001005	J	Diode 1SS119	AB
D702	9FJ0D00001005	J	Diode 1SS119	AB
D703	9FJ0D00001005	J	Diode 1SS119	AB
D704	9FJ0D01001515	J	Diode EG01ZVO	AD
D705	9FJ0D04001020	J	Diode FMBG14	AH
D706	9FJ0D23010022	J	Diode FMX12S	AH
D707	9FJ0D23010022	J	Diode FMX12S	AH
D708	9FJ0D02010000	J	Diode RL2Z	AF
D709	9FJ0D01010105	J	Diode 1DL42A	AE
D710	9FJ0D00001005	J	Diode 1SS119	AB
D711	9FJ0D00001005	J	Diode 1SS119	AB
D712	9FJ0D00001005	J	Diode 1SS119	AB
D713	9FJ0D00001005	J	Diode 1SS119	AB
⚠ DB701	9FJ0D14010070	J	Bridge Diode D10XB60	AN
ZD701	9FJ0D31181625	J	Zener Diode RD10JS	AD
ZD702	9FJ0D31181655	J	Zener Diode RD15JS	AD
ZD703	9FJ0D31110125	J	Zener Diode RD5.1JS	AD
ZD704	9FJ0D31110125	J	Zener Diode RD5.1JS	AD

PACKAGED CIRCUITS

⚠ NR701	9FJ0F20010090	J	ZNR Transient/ Surge Absorbers ERZV14D331	AG
⚠ PC701	9FJ0F10010670	J	Photo Coupler TLP621	AG
⚠ PC702	9FJ0F10010670	J	Photo Coupler TLP621	AG
⚠ PC704	9FJ0F10010670	J	Photo Coupler TLP621	AG
⚠ PC705	9FJ0F10010990	J	Photo Triac Coupler TLP665	AN

COIL AND TRANSFORMERS

⚠ L701	9FJ0L05901080	J	Inductor 2mH 1038-08202C	AQ
⚠ L702	9FJ0L05901080	J	Inductor 2mH 1038-08202C	AQ
L703	9FJ0L08001445	J	Inductor 5.6µH	AF
L704	9FJ0L08001445	J	Inductor 5.6µH	AF
L705	9FJ0L08001445	J	Inductor 5.6µH	AF

Ref. No.	Part No.	★	Description	Code
L706	9FJ0L08001445	J	Inductor 5.6µH	AF
L707	9FJ0L08010145	J	Inductor 8.2µH	AD
L708	9FJ0L08010150	J	Inductor CM05RB02	AK
⚠ T701	9FJ0L00010100	J	Trans. 050100	AR
⚠ T702	9FJ0L00010110	J	Trans. 050101	AR

CONTROLS

VR701	9FJ0R60001245	J	500(B) 6.5V Adj.	AE
VR702	9FJ0R60001255	J	1k(B) 13V Adj.	AE

CAPACITORS

⚠ C701	9FJ0C34010663	J	0.47 250V M. Polyester	AK
⚠ C702	9FJ0C34010663	J	0.47 250V M. Polyester	AK
C703	9FJ0C51000020	J	2200p 250V Ceramic	AE
C704	9FJ0C51000020	J	2200p 250V Ceramic	AE
C705	9FJ0C51000020	J	2200p 250V Ceramic	AE
⚠ C706	9FJ0C02501780	J	1500 200V Electrolytic	AW
⚠ C707	9FJ0C02501780	J	1800 200V Electrolytic	AW
C709	9FJ0C32410080	J	0.022 400V M. Polyester	AE
C710	9FJ0C12001305	J	0.022 50V Polyester Film	AD
C711	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C712	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C713	9FJ0C32410080	J	0.022 400V M. Polyester	AE
C714	9FJ0C12001305	J	0.022 50V Polyester Film	AD
C715	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C716	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C717	9FJ0C01502545	J	47 50V Electrolytic	AC
C718	9FJ0C12001005	J	1000p 50V Polyester Film	AD
C719	9FJ0C01401675	J	330 35V Electrolytic	AF
C720	9FJ0C50011295	J	0.01 250V Ceramic	AE
C721	9FJ0C50011295	J	0.01 250V Ceramic	AE
C722	9FJ0C01110135	J	1000 10V Electrolytic	AE
C723	9FJ0C01410113	J	1000 35V Electrolytic	AK
C724	9FJ0C01401595	J	220 35V Electrolytic	AF
C726	9FJ0C12001005	J	1000p 50V Polyester Film	AD
C727	9FJ0C01202325	J	220 16V Electrolytic	AE
C728	9FJ0C50002185	J	0.1 50V Ceramic	AD
C730	9FJ0C12001035	J	0.1 50V Polyester Film	AD
C731	9FJ0C01402025	J	470 35V Electrolytic	AG
C732	9FJ0C50011295	J	0.01 250V Ceramic	AE
C733	9FJ0C01410113	J	1000 35V Electrolytic	AK
C735	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C736	9FJ0C01401595	J	220 35V Electrolytic	AF
C737	9FJ0C50002185	J	0.1 50V Polyester Film	AD
C739	9FJ0C01402025	J	470 35V Electrolytic	AG
C740	9FJ0C01510515	J	220 50V Electrolytic	AF
C741	9FJ0C01401985	J	100 35V Electrolytic	AE
C742	9FJ0C01502545	J	47 50V Electrolytic	AC
⚠ C743	9FJ0C51000020	J	2200p 250V Ceramic	AE
⚠ C744	9FJ0C51000020	J	2200p 250V Ceramic	AE
C745	9FJ0C01401985	J	100 35V Electrolytic	AE
C746	9FJ0C50010565	J	330p 1kV Ceramic	AD
C747	9FJ0C50010565	J	330p 1kV Ceramic	AD
C749	9FJ0C12001015	J	0.01 50V Polyester Film	AD

RDENC0173CEZZ
POWER UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
C750	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C751	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C752	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C753	9FJ0C32310130	J	0.047 250V M. Polyester	AE
⚠ C754	9FJ0C51000020	J	2200p 250V Ceramic	AE
⚠ C755	9FJ0C51000020	J	2200p 250V Ceramic	AE
C756	9FJ0C50011295	J	0.01 250V Ceramic	AE
C757	9FJ0C50011295	J	0.01 250V Ceramic	AE
C758	9FJ0C50011295	J	0.01 250V Ceramic	AE
C760	9FJ0C01510535	J	1 50V Electrolytic	AD

RESISTORS

Ref. No.	Part No.	★	Description	Code
⚠ R701	9FJ0R02103595	J	220k 1/2W Carbon	AC
R702	9FJ0R22110310	J	10 5W Cement	AG
R703	9FJ0R70010070	J	10 5W 130°C Cement	AH
⚠ R704	9FJ0R17071411	J	68k 2W Metal Oxide	AD
⚠ R705	9FJ0R17071411	J	68k 2W Metal Oxide	AD
R706	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R707	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R708	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R709	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R710	9FJ0R02103645	J	560k 1/2W Carbon	AC
R711	9FJ0R02103645	J	560k 1/2W Carbon	AC
R712	9FJ0R17070731	J	100 2W Metal Oxide	AD
R713	9FJ0R16080555	J	18 1W Metal Oxide	AD
R714	9FJ0R00100695	J	68 1/6W Carbon	AB
R715	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R716	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R717	9FJ0R02103645	J	560k 1/2W Carbon	AC
R718	9FJ0R02103645	J	560k 1/2W Carbon	AC
R719	9FJ0R16010035	J	82k 1W Metal Oxide	AC
R720	9FJ0R16010035	J	82k 1W Metal Oxide	AC
R721	9FJ0R17070731	J	100 2W Metal Oxide	AD
R722	9FJ0R16080615	J	33 1W Metal Oxide	AD
R724	9FJ0R02103565	J	120k 1/2W Carbon	AC
R725	9FJ0R02103565	J	120k 1/2W Carbon	AC
R727	9FJ0R00100935	J	680 1/4W Carbon	AB
R728	9FJ0R02103335	J	1.5k 1/2W Carbon	AC
R729	9FJ0R00101215	J	10k 1/6W Carbon	AB
R730	9FJ0R16080895	J	470 1W Carbon	AB
R732	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R733	9FJ0R00101075	J	2.7k 1/6W Carbon	AB
R734	9FJ0R00100895	J	470 1/6W Carbon	AB
R735	9FJ0R00100495	J	10 1/6W Carbon	AB
R736	9FJ0R00100735	J	100 1/6W Carbon	AB
R737	9FJ0R00101055	J	2.2k 1/4W Carbon	AB
R738	9FJ0R00100815	J	220 1/6W Carbon	AB
R739	9FJ0R00101215	J	10k 1/6W Carbon	AB
R740	9FJ0R00101215	J	10k 1/6W Carbon	AB
R741	9FJ0R00101055	J	2.2k 1/6W Carbon	AB
R743	9FJ0R00101035	J	1.8k 1/4W Carbon	AB
R744	9FJ0R00101295	J	22k 1/6W Carbon	AB
⚠ R746	9FJ0R31102045	J	3.9M 1/2W Solid	AE
R747	9FJ0R02103235	J	220 1/2W Carbon	AB
R749	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R750	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R751	9FJ0R17070651	J	47 2W Metal Oxide	AD
R752	9FJ0R17070651	J	47 2W Metal Oxide	AD
R754	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R755	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R756	9FJ0R16080735	J	100 1W Metal Oxide	AD
R757	9FJ0R16080735	J	100 1W Metal Oxide	AD
R758	9FJ0R16080615	J	33 1W Metal Oxide	AD
R760	9FJ0R16010035	J	82k 1W Metal Oxide	AC
R762	9FJ0R00101215	J	10k 1/6W Carbon	AB
R763	9FJ0R00100735	J	100 1/6W Carbon	AB
R764	9FJ0R00100655	J	47 1/6W Carbon	AB
R765	9FJ0R17070251	J	1 2W Metal Oxide	AD

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
⚠ F701	9FJ0E01910350	J	Fuse, T10A 125V	AF
F703	9FJ0R17080330	J	Resistor 2.2 ohm 2W Metal Oxide	AC
⚠ RY701	9FJ0H11510410	J	Relay	AR
	9FJ0G10001750	J	Connector 3-pin (PE)	AE
	9FJ0G10011600	J	Connector 2-pin (BA)	AD
	9FJ0G10001640	J	Connector 2-pin (PS)	AD
	9FJ0G10001750	J	Connector 3-pin (PL)	AE
	9FJ0G10003800	J	Connector 7-pin (EA)	AE
	9FJ0G10011580	J	Connector 4-pin (EB)	AE

RDENC0174CEZZ
BALLAST UNIT

PACKAGED CIRCUIT

NOTE: TH PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

Ref. No.	Part No.	★	Description	Code
⚠ SUBPC	9FJ8G00010401	J	Sub Unit	AY

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
⚠ Q1701	9FJ0Q11001442	J	2SK2057	AW
Q1702	9FJ0Q02001351	J	2SC3328Y	AG
Q1703	9FJ0Q02001071	J	2SC2785	AD

DIODES

Ref. No.	Part No.	★	Description	Code
D1702	9FJ0D01001515	J	Diode EG01Z	AD
D1703	9FJ0D26010080	J	Diode FMG36S	AL
D1704	9FJ0D01001515	J	Diode EG01Z	AD

PACKAGED CIRCUITS

Ref. No.	Part No.	★	Description	Code
⚠ PC1701	9FJ0F10010670	J	Photo Coupler TLP621	AG
⚠ PC1702	9FJ0F10010670	J	Photo Coupler TLP621	AG
⚠ SCR1701	9FJ0D30910020	J	SCR K1V22W	AQ

COIL AND TRANSFORMERS

Ref. No.	Part No.	★	Description	Code
⚠ L1701	9FJ0L08501090	J	Inductor	AS
L1704	9FJ0L08001430	J	Inductor	AF
⚠ L1707	9FJ0L05010100	J	Inductor 8.2mH ELF-18D850C	AU
⚠ T1701	9FJ0L01501000	J	Trans. 150100	AN
⚠ T1702	9FJ0B00010080	J	Igunaiter SMI-SZ-01B	BQ

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C1701	9FJ0C50010725	J	1000p 1kV Ceramic	AD
C1702	9FJ0C12001035	J	0.1 50V Polyester Film	AD
C1703	9FJ0C32410040	J	2.2 400V M. Polyester	AN
C1704	9FJ0C32401070	J	0.1 400V M. Polyester	AF
C1706	9FJ0C50010760	J	470p 2kV Ceramic	AE
C1707	9FJ0C02801413	J	220 400V Electrolytic	AV
⚠ C1711	9FJ0C51000020	J	2200p 250V Ceramic	AE
C1713	9FJ0C32410080	J	0.022 400V M. Polyester	AE
C1714	9FJ0C32410080	J	0.022 400V M. Polyester	AE
⚠ C1715	9FJ0C32410070	J	0.1 400V M. Polyester	AF
C1751	9FJ0C12001015	J	0.01 50V Polyester Film	AD

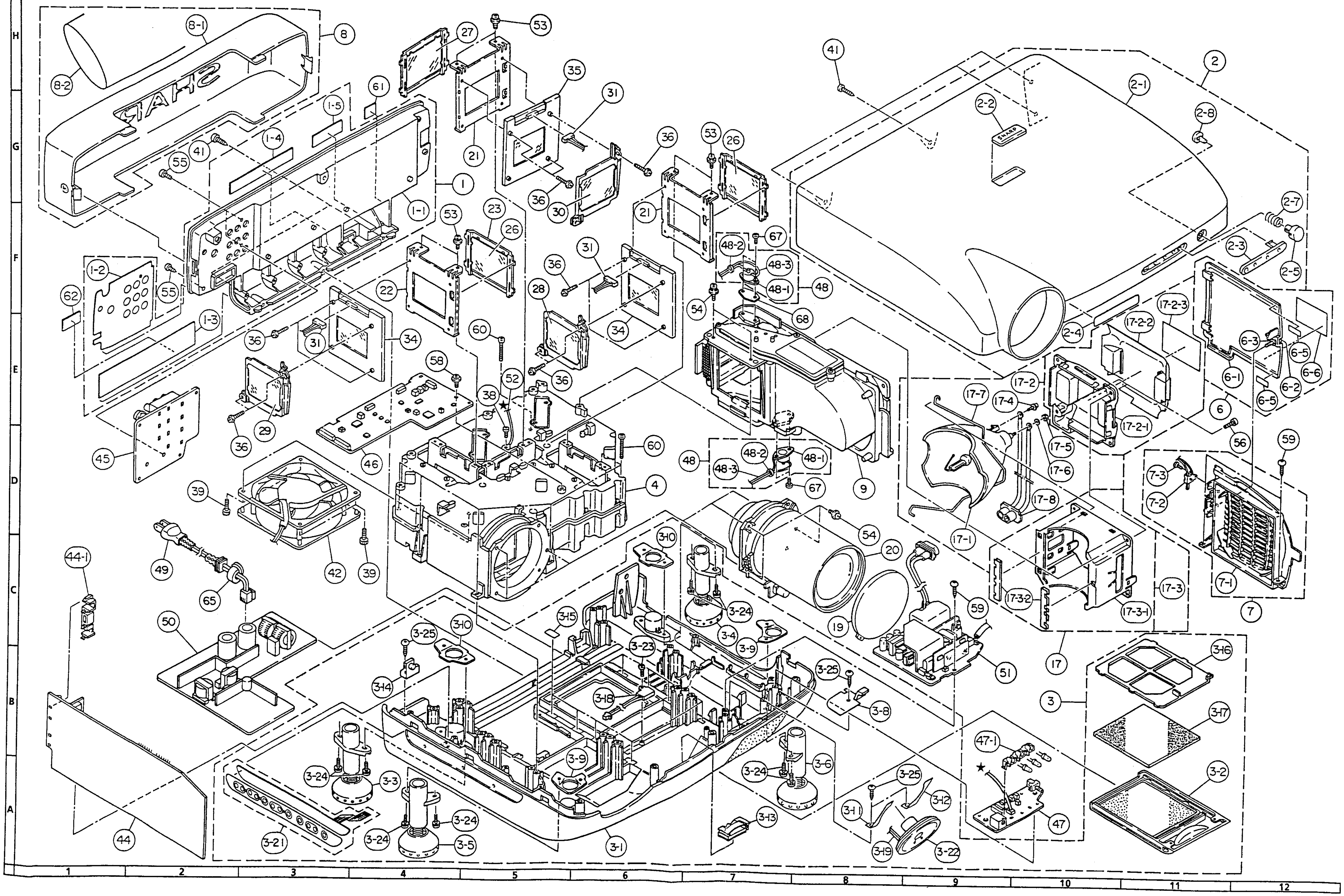
RESISTORS

Ref. No.	Part No.	★	Description	Code
R1701	9FJ0R22001210	J	0.22 5W Cement	AE
R1702	9FJ0R22010260	J	22 5W Cement	AF
R1703	9FJ0R11002055	J	270k 1W Special	AD
R1704	9FJ0R11002045	J	220k 1W Special	AD
R1705	9FJ0R22104184	J	12k 5W Cement	AG
R1706	9FJ0R15080655	J	47 1/2W Metal Oxide	AC
R1707	9FJ0R17070841	J	300 2W Metal Oxide	AD
R1708	9FJ0R17070841	J	300 2W Metal Oxide	AD
R1709	9FJ0R00100615	J	33 1/6W Carbon	AB
R1710	9FJ0R00101335	J	33k 1/6W Carbon	AB
⚠ R1711	9FJ0R22001210	J	0.22 5W Cement	AE
⚠ R1712	9FJ0R22001210	J	0.22 5W Cement	AE
⚠ R1713	9FJ0R31110025	J	820k 1/2W Solid	AE
R1715	9FJ0R02103315	J	1k 1/2W Carbon	AC
R1716	9FJ0R17070411	J	4.7 2W Metal Oxide	AD
R1717	9FJ0R22110320	J	1 5W Metal Oxide	AF
R1756	9FJ0R00100855	J	330 1/6W Carbon	AB

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
⚠ TF1701	9FJ0E03010060	J	Thermal Fuse, P125A	AG
	9FJ0G10011560	J	Connector 3-pin (PL)	AE
	9FJ0G10001640	J	Connector 2-pin (PS)	AD
	9FJ0G10002140	J	Connector 3-pin (D)	AE

CABINET AND MECHANICAL PARTS


H
G
F
E
D
C
B
A
8-1
8
8-2
27
53
61
1-5
35
31
41
2
2-1
2-2
SHARP
2-8
1-4
41
55
21
36
53
26
1
1-1
53
23
26
36
30
21
2-7
2-3
2-5
48-2
67
48-3
48-1
48
1-2
55
62
1-3
22
31
36
28
54
68
34
60
17-2-3
17-2-2
2-4
6-3
6-5
6-6
36
31
34
58
52
38
36
17-2
17-7
17-4
6-1
6-2
6-5
6
17-2-1
17-5
56
59
29
45
36
46
60
48
48-2
48-3
48-1
67
9
17-6
7-3
7-2
4
39
17-8
54
20
17-1
49
42
39
44-1
65
3-10
3-24
17-3-2
17-3-1
17-3
7-1
7
59
50
3-15
3-25
3-10
3-4
3-9
19
3-23
51
17
3-16
3-14
3-25
3-8
3-18
3
3-17
47-1
3-9
3-24
3-6
3-24
3-3
3-25
3-12
3-2
3-24
3-11
47
3-13
3-21
3-24
3-5
3-1
3-19
3-22
44
1
2
3
4
5
6
7
8
9
10
11
12

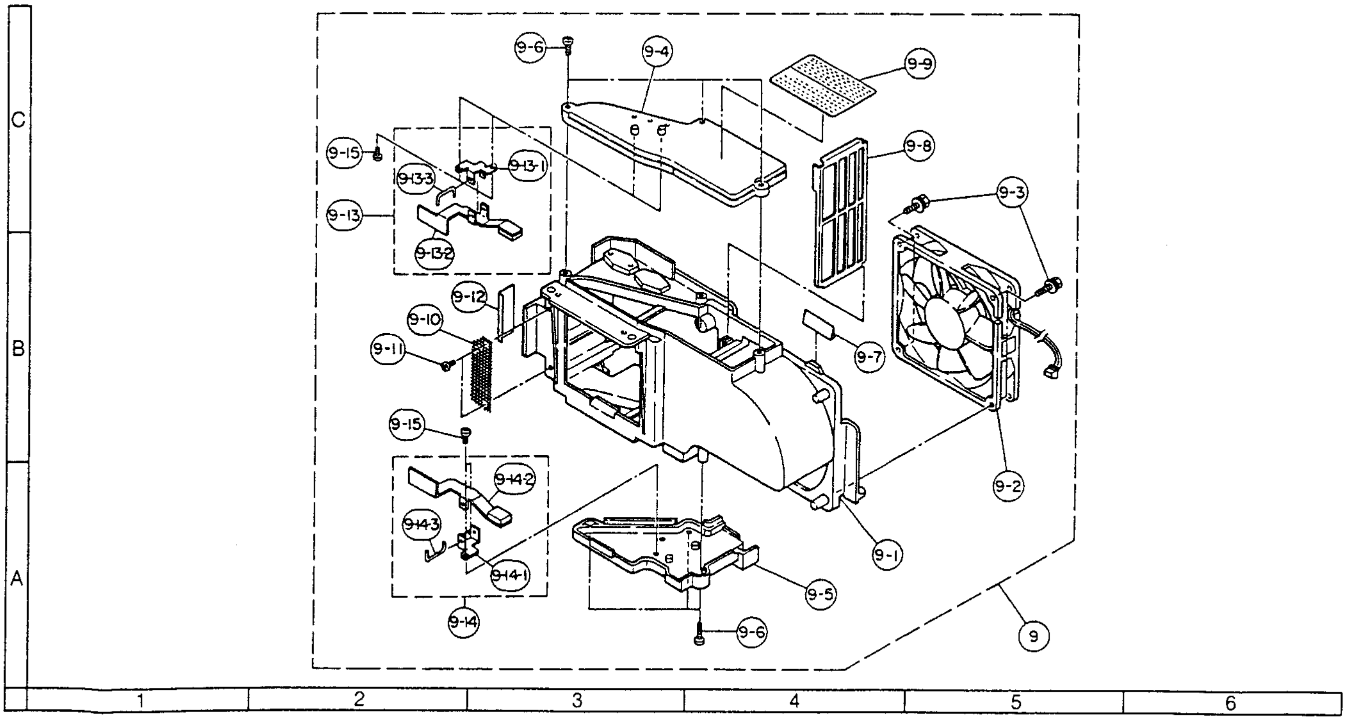
CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	CBDYR1027CEK4	J	Rear Body Ass'y	AZ
1-1	*Not Available*	–	Rear Body	—
1-2	HiNDP4372CESA	J	Indication Plate, Jack	AG
1-3	HiNDP4654CESA	J	Indication Plate, Model	AE
1-4	HiNDP4116CESi	J	Indication Plate	AE
1-5	HiNDP4400CESA	J	Indication Plate	AE
2	CBDYT1021CEK1	J	Top Body Ass'y	BG
2-1	*Not Available*	–	Top Body	—
2-2	HBDGB3107CESA	J	Badge, "SHARP"	AL
2-3	HiNDP4330CESA	J	Indication Plate, LED	AL
2-4	HiNDP4395CESA	J	Indication Plate, Lens Caution	AD
2-5	JBTN-1803CESB	J	Putton, Power	AE
2-6	*Not Used*			
2-7	MSPRC0146CEFW	J	Spring, Power Button	AC
2-8	PGiDM0017CE00	J	Guide, Button	AB
3	CBDYU1016CEK6	J	Bottom Body Ass'y	BV
3-1	*Not Available*	–	Bottom Body	—
3-2	CCOVA1477CE02	J	Fan Cover	AS
3-3	GLEGP9085CESA	J	Leg, Left-Rear	AM
3-4	GLEGP9086CESA	J	Leg, Right-Rear	AM
3-5	GLEGP9083CESA	J	Leg, Left-Front	AM
3-6	GLEGP9084CESA	J	Leg, Right-Front	AM
3-7	*Not Used*			
3-8	LANGH0120CEFW	J	Top Body Retainer	AE
3-9	LANGK0442CEFW	J	Leg Angle-A, x2	AC
3-10	LANGK0443CEFW	J	Leg Angle-B, x2	AC
3-11	LANGS0092CEFW	J	Speaker Holder-A	AC
3-12	LANGS0093CEFW	J	Speaker Holder-B	AC
3-13	LHLDW1173CEZZ	J	Wire Holder	AD
3-14	LHLDZ1777CEZZ	J	Holder	AC
3-15	PCOVU1015CE00	J	Light Shielding Cover, x8	AA
3-16	PFiLD0024CEZZ	J	Filter-B	AF
3-17	PFiLD0027CEZZ	J	Filter	AF
3-18	QCNW-3662CEZZ	J	Connecting Cord	AH
3-19	QCNW-3664CEZZ	J	Connecting Cord, (SP)	AE
3-20	*Not Used*			
3-21	QSW-Z0040CEZZ	J	Membrane Switch	BA
3-22	VSP0080P-H4WA	J	Speaker	AM
3-23	XEBSD26P08000	J	Screw, x1, for Switch	AA
3-24	LX-BZ3292CEFF	J	Screw, x8, Leg Cover	AA
3-25	XTASF40P16000	J	Screw, x5	AA
4	CCHSK0012CE03	J	Optics Mech. Ass'y	CX
5	*Not Used*			
6	CCOVA1478CEK1	J	Lamp Cover Ass'y	AR
6-1	*Not Available*	–	Lamp Cover	—
6-2	LX-UZ3021CESB	J	Screw	AD
6-3	XRESJ30-06000	J	E-Ring	AA
6-4	*Not Used*			
6-5	PSPAH0454CE00	J	Himelon, x2	AA
6-6	HiNDP4396CESA	J	Indication Plate	AE
7	CCOVA1479CEK1	J	Side Fan Cover Ass'y	AS
7-1	*Not Available*	–	Side Fan Cover	—
7-2	QCNW-3663CEZZ	J	Leaf Switch	AH
7-3	XEBSD26P08000	J	Screw, x1, for Leaf Sw.	AA
8	CCOVA1480CE02	J	Terminal Cover Ass'y	AR
8-1	*Not Available*	–	Terminal Cover	—
8-2	*Not Available*	–	Plastic Bag	—
9	CCOVZ1049CEK1	J	Duct Ass'y	BK
9-1	*Not Available*	–	Duct Base	—
9-2	NFANR0017CE00	J	Fan	BC
9-3	XEBSF40P16000	J	Screw, x4, for Fan	AA
9-4	PCOVZ1050CEKZ	J	Duct Cover-B	AL
9-5	PCOVZ1011CEZZ	J	Duct Cover-A	AG
9-6	XEPSF30P10000	J	Screw, x6	AA
9-7	PSPAT0010CEZZ	J	Tape, x1	AA
9-8	LANGH0119CEFW	J	Guard	AD
9-9	TLABZ0534CEZZ	J	Caution Label	AC
9-10	HPNC-0398CEFW	J	Punching Plate	AF
9-11	XEPSN30P05000	J	Screw, x2	AB
9-12	PSPAT0009CEZZ	J	Tape, x1	AB
9-13	CANGH0130CEZZ	J	Active Duct Ass'y	AL
9-13-1	*Not Available*	–	Active Duct Base	—
9-13-2	*Not Available*	–	Active Duct	—
9-13-3	*Not Available*	–	Shaft	—
9-14	CANGH0131CEZZ	J	Active Duct Ass'y	AL
9-14-1	*Not Available*	–	Active Duct Base	—
9-14-2	*Not Available*	–	Active Duct	—
9-14-3	*Not Available*	–	Shaft	—
9-15	XEBSD30P06000	J	Screw, x4, for Active Ducts	AA
10	*Not Used*			
11	*Not Used*			
12	*Not Used*			
13	*Not Used*			
14	*Not Used*			
15	*Not Used*			
16	*Not Used*			
⚠ 17	BQC-XVH37U//1	J	Lamp Unit (Lamp/Cage Module)	CH
⚠ 17-1	CLMPF0031DE01	J	Lamp/Mirror Ass'y	CC
17-2	CHLDZ1774CE11	J	Lamp Case Ass'y	AT
17-2-1	LHLDZ1774CEZZ	J	Lamp Case	AM
17-2-2	PSLDH1005CEZZ	J	Heat Shield	AK
17-2-3	TLABZ0592CEZZ	J	Caution Label	AD
17-3	CHLDZ1775CE01	J	Lamp Case Ass'y, Lower	AQ
17-3-1	LHLDZ1775CEZZ	J	Lamp Case, Lower	AN
17-3-2	PSLDH3034CEFW	J	Shield, x2	AD
17-4	LX-BZ3270CEFN	J	Screw, x1	AA
17-5	LX-NZ3108CEFN	J	Nut, x1	AA
17-6	LX-WZ3102CEFN	J	Washer, x1	AA

CABINET AND MECHANICAL PARTS
(Continued)

Ref. No.	Part No.	★	Description	Code
17-7	MSPRB0015CEFW	J	Spring, x1	AF
17-8	QPLGN0156FJZZ	J	Plug	AN
18	*Not Used*			
19	PCAPH1035CESA	J	Lens Cap	AK
20	PLNS-0041CESA	J	Projection Lens	CH
21	LANGT2061CEFW	J	Angle, LCD R/B	AQ
22	LANGT2062CEFW	J	Angle, LCD G	AQ
23	*Not Used*			
24	*Not Used*			
25	*Not Used*			
26	PFiLW0083CEZZ	J	Polarizer Input Filter, R/G	AX
27	PFiLW0084CEZZ	J	Polarizer Input Filter, B	BD
28	PFiLW0085CEZZ	J	Polarizer Output Filter, R	AY
29	PFiLW0086CEZZ	J	Polarizer Output Filter, G	AY
30	PFiLW0087CEZZ	J	Polarizer Output Filter, B	AY
31	QCNW-3852CEZZ	J	R/G/B-FCC	AQ
32	*Not Used*			
33	*Not Used*			
34	RLCDP0022CEZZ	J	LCD Module Unit, R/G	DB
35	RLCDP0023CEZZ	J	LCD Module Unit, B	DB
36	XHPSF30P14WS0	J	Screw, x12	AA
37	*Not Used*			
38	LX-BZ3220CEFD	J	Screw, x1, Thermistor	AA
39	LX-BZ3284CEFF	J	Screw, x4, Suction Fan	AB
40	*Not Used*			
41	LX-TZ3060CESE	J	Screw, x6	AD
42	NFANR0050CE00	J	Suction Fan	BC
43	*Not Used*			
44	*Not Available*	–	Main Unit	—

Ref. No.	Part No.	★	Description	Code
44-1	LHLDZ1768CEZZ	J	Jack Holder	AC
45	*Not Available*	–	Input Unit	—
46	*Not Available*	–	Control Unit	—
47	*Not Available*	–	LED Unit	—
47-1	LHLDZ1766CE00	J	LED Holder	AB
48	*Not Available*	-	Bimetal Unit	—
48-1	RBiM-0007CEZZ	J	Bimetal, x2	AN
48-2	LHLDW1033CEKZ	J	Wire Holder, x2	AA
48-3	QCNW-4499CEZZ	J	Connecting Wire	AG
⚠ 49	QACCU3017CEZZ	J	AC Cord	AM
50	*Not Available*	–	Power Unit	—
51	*Not Available*	–	Ballast Unit	—
52	RH-HZ0024CEZZ	J	Thermistor	AP
53	XBPSD40P08JS0	J	Screw, x6	AA
54	XBPSD40P12JS0	J	Screw, x5	AA
55	XEBSN30P10000	J	Screw, x3	AA
56	XEPSD40P12000	J	Screw, x2	AA
57	*Not Used*			
58	XHPSD30P08WS0	J	Screw, x1	AA
59	XTASF40P16000	J	Screw, x3	AA
60	XTBSD40P30000	J	Screw, x7	AA
61	TLABS0211CEZZ	J	UL/C-UL Label	AD
62	HiNDP4655CEZZ	J	Number Label	AC
63	*Not Used*			
64	*Not Used*			
65	RCORF0054CEZZ	J	Ferrite Core	AM
66	*Not Used*			
67	XEPSD30P06000	J	Screw, x4	AA
68	PSPAZ0135CEKZ	J	Bimetal Spacer	AD



SUPPLIED ACCESSORIES

ACCESSORIES

Ref. No.	Part No.	★	Description	Code
	HiNDP4374CESA	J	Inverted Label	AE
	QCNW-3740CEZZ	J	A/V Cable	BB
	RRMCG1229CESA	J	Remote Control Unit	BB
	TiNS-5830CEZZ	J	Operation Manual	AN

ACCESSORIES (NOT REPLACEMENT ITEM)

Ref. No.	Part No.	★	Description	Code
	TCADN3044CEZZ	–	Register Card (U.S.A.)	—
	TCAUH1133CEZZ	–	Filter Caution Card	—
	TGAN-1403CEZZ	–	Guarantee Card (U.S.A.)	—
	TGAN-1403CEZZ	–	Guarantee Card (CANADA)	—
	UBATU0026GEZZ	–	Dry Batteries, AAA x2	—

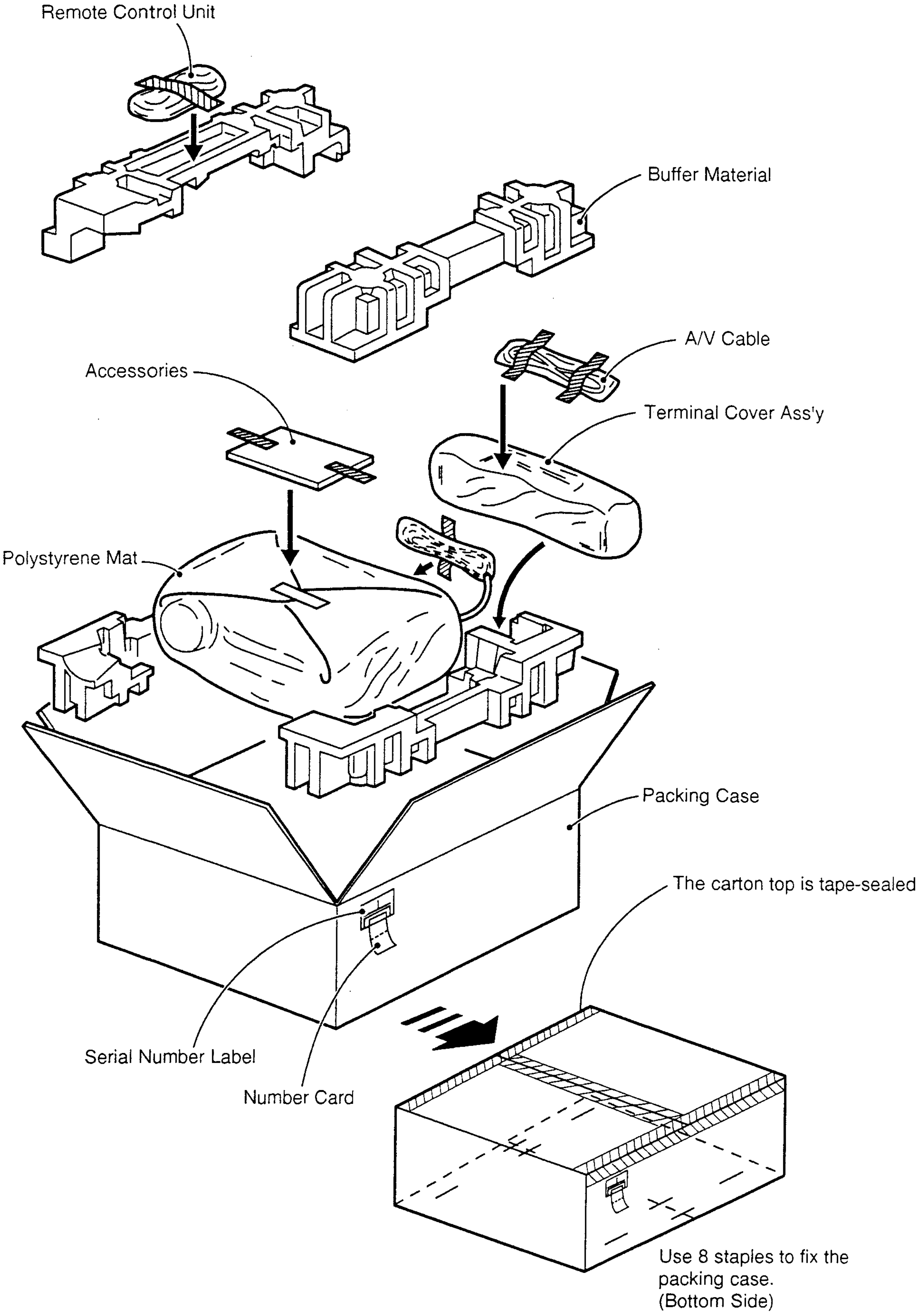
PACKING PARTS
(NOT REPLACEMENT ITEM)

Ref. No.	Part No.	★	Description	Code
	SPAKC4914CEZZ	–	Packing Case	—
	SPAKP0692CEZZ	–	Polystyrene Mat	—
	SPAKX2514CEZZ	–	Buffer Material	—
	TLABK0001TAZZ	–	Number Card	—
	TLABN0157CEZZ	–	Seral Number Label	—

SERVICE PARTS

Ref. No.	Part No.	★	Description	Code
	QCNW-3831CEZZ	J	Extension Cable 12-pin, (TA)—(TA)	BC
	QCNW-3831CEZZ	J	Extension Cable 12-pin, (TB)—(TB)	BC
	QCNW-4473CEZZ	J	Extension Cable 16-pin, (MA)—(MA)	AS
	QCNW-4473CEZZ	J	Extension Cable 16-pin, (MB)—(MB)	AS
	QSW-Z0040CEZZ	J	Membrane Switch (Use for servicing Main Unit)	BA

PACKING OF THE SET


Remote Control Unit
Buffer Material
A/V Cable
Accessories
Terminal Cover Ass'y
Polystyrene Mat
Packing Case
Serial Number Label
Number Card

The carton top is tape-sealed

Use 8 staples to fix the
packing case.
(Bottom Side)